

Industrial PCs applied in

- / Logistics und Warehouse
- / Heavy Duty
- / Fleet Management
- / Stationary and Automation



DLoG Config Manual 3.10

This manual contains a detailed description of the product and we have made every effort to make it as accurate as possible. However, this is not a guarantee of the features or the functionality of the product. We reserve the right to modify the contents of this document at any time and without prior notice.

Because we at DLoG are constantly striving to improve this product, we cannot guarantee that previous or subsequent releases of the product will coincide in every respect with the product description given in this manual.

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1. About this manual

This manual has been designed to make using the DLoG Config program as simple as possible and provide expert assistance if problems should occur. It contains important information on using the program safely and efficiently.



To find information fast and easily, use the comprehensive **Index** at the back of the manual!



WARNING

Please read this manual and take note of all the safety precautions before configuring your DLoG Industrial PC with DLoG Config.

DLoG GmbH will not assume responsibility for any damage caused by the improper use of the DLoG Config program and/or in disregard of the instructions in this manual.

Within this manual, DLoG GmbH strives to provide all the information required for using your DLoG Config program. However, because this is a versatile product that can be used in many different scenarios, we cannot guarantee that the information contained in this manual will cover every single aspect.

Should you require further information or if you have questions or issues needing clarification, please contact your nearest DLoG agent or representative.

1.1. Software version described

This manual describes the DLoG Config software version 3.10.

1.2. Retain this manual

Retain this manual carefully. It should be readily accessible when the DLoG Config software is used.

1.3. For qualified personnel

This manual was written for qualified personnel. The information is intended exclusively to complement the expertise of qualified personnel, not to replace it.

1.4. Design method

1.4.1. Risk of injury or death

This symbol indicates hazards that pose a risk to life and limb (such as contacting the power supply):



The following levels apply, denoted by the keywords DANGER, WARNING, and CAUTION:



DANGER

There is an immediate risk of death / serious injury.



WARNING

There is a possible risk of death / serious injury.



CAUTION

Mild injury is possible.

1.4.2. Danger of property damage

These tips warn you of possible property damage:

Caution: Property damage

This symbol warns you of any dangers or hazards that could potentially cause damage to the terminal or system (such as malfunctions, data loss, equipment damage, etc.).

1.4.3. Hints



This symbol indicates hints that help you to understand how to use the product or the manual.

1.4.4. Additional design elements

Lists are indicated with bullet points, for example:

- DLoG MPC
- DLoG MTC

Instructions are numbered, for example:

1. Insert a CD.
2. Press <A>.

Key display

Key names are shown in angle brackets: <F1>, <Ctrl>, <Insert>, <Home>, etc.

Menu options, commands, dialog fields

Examples: In the **Edit** menu you will find the command **Paste | Values**.

Click **OK** to finish.

Other methods for emphasis

Any other emphasized text elements are highlighted in **bold** or underlined.

References to other chapters in the manual are printed in *italics*.

2. Basic safety guidelines

Caution:
Property
damage

DLoG Config contains important settings for your DLoG Industrial PC. Incorrect settings, such as those in the **Automatic Switch-off** menu, can disable the functions of your computer. Only qualified technical personnel, e.g. persons qualified in computer/network/system administration may perform DLoG Config settings.

If improper changes of the DLoG Config settings are performed by the customer, this releases DLoG GmbH from all liability for warranty claims.

3. Area of applicability

The DLoG Config settings described in this manual apply to the following DLoG Industrial PCs:

- DLoG MPC 6
- DLoG IPC 7
- DLoG ITC 7
- DLoG MTC 6

4. Overview of functions

The **DLoG Config** software can be used to configure the DLoG Industrial PCs listed in section 3 *Area of applicability*.



The DLoG Config software automatically recognizes the Industrial PC type and the installed operating system. The configuration dialog differentiates the various systems and is displayed according to the device.

The functions in overview, for example, with the operating system, Windows Embedded Standard 7 (WES 7) with **File Based Write Filter** in the image:

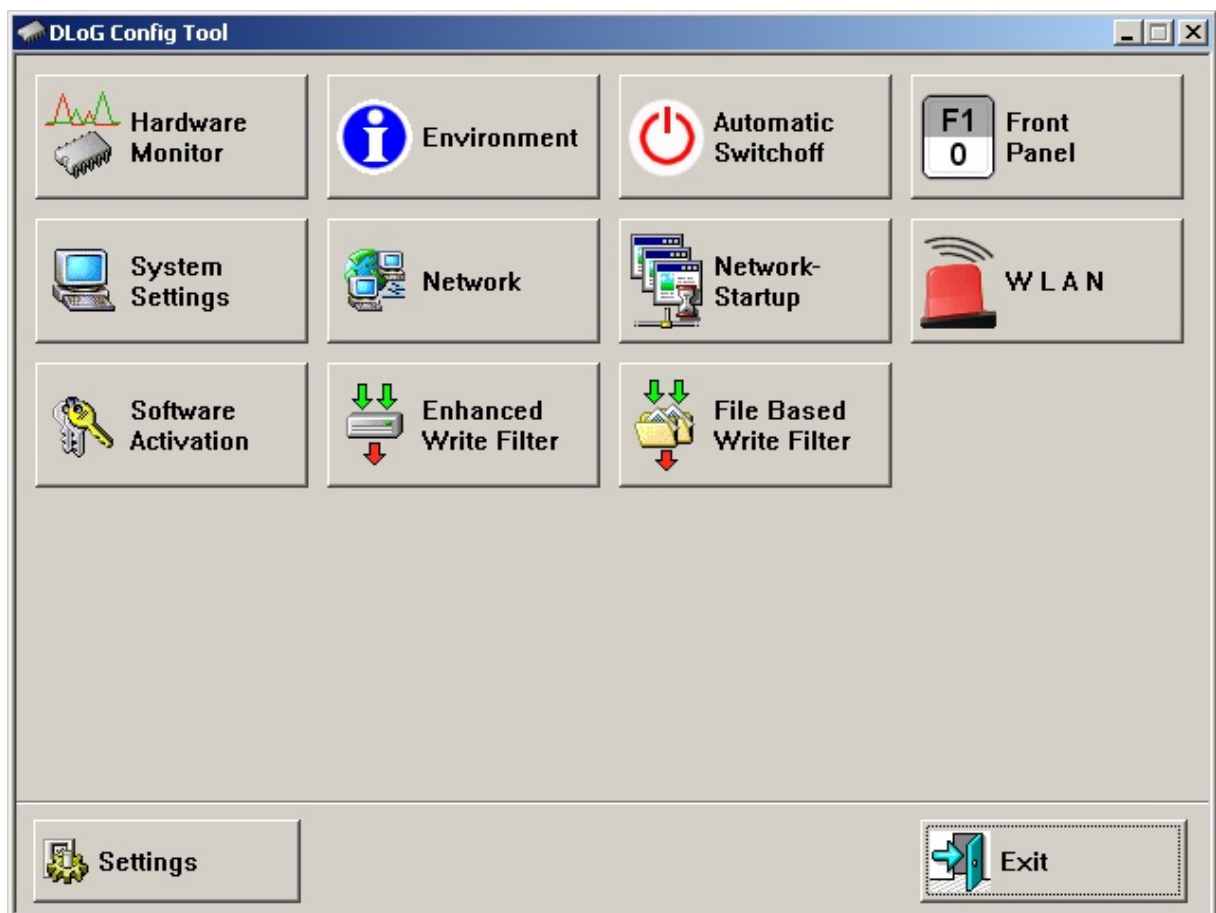


Figure 4.1: DLoG Config main menu with operating system WES 7

Windows 2000, XP, and 7 do not work with **File Based Write Filter**. This button is omitted with these operating systems.

Menu	Function
Hardware Monitor	Information display: e.g. serial number of the device and current operating temperature
Environment	Information display: Statistics and data on the environment controller, such as 'hard' switch-offs
Automatic Switch-off	Configures the automatic switch-off behaviour (delay time, ignition, etc.)
Front Panel	Defines the assignment of DLoG Industrial PCs optional front panel keys
System Settings	Configures Windows logon, taskbar display etc.
Network	Manages IP address and DNS server
Network Startup	Start programs automatically when booting the device
WLAN	Configuration of the WLAN Status Window
Software Activation	Activates licenses for automatic switch-off and software keyboard and releases them for use on this computer
Enhanced Write Filter	Exclusively for MS Windows <u>Embedded</u> operating systems: administers write protection function
File Based Write Filter	Exclusively for MS Windows <u>Embedded</u> operating systems: administers write protection function
Settings	Sets password, language and further default settings for the DLoG Config program
Exit	Exit DLoG Config program

5. Installation

5.1. System requirements

The following operating systems are supported:

- MSWindows 2000, Service Pack 4
- MS Windows XP
- MS Windows XP Embedded
- MS Windows 7
- MS Windows Embedded Standard 7 (WES 7)

5.2. Pre-installed on DLoG computers

In most cases DLoG Config is pre-installed on each DLoG Industrial PC by the DLoG production department.

5.3. Subsequent installation

An installation program is available for subsequent installation.

Start the **dlog config.exe** in the **Tools** directory on the DLoG driver CD. **c:\dlog** is suggested as the standard installation directory. This path can be modified, however.

Restart the computer once installation is complete. DLoG Config will only be operable following rebooting.

5.4. Automatic installation of software keyboard

DLoG software keyboard is automatically installed as part of the DLoG Config installation. If no license is available for this software, the keyboard will only function for three minutes. It then stops working. For further information about the software keyboard, please refer to the instruction manual of the same name.

5.5. Files

The following important files are located in the DLoG Config installation directory:

DLoGCfg.exe	Main program for configuration
Config_Local.cfg	Configuration file with DLoG Config settings – all local settings that are not saved directly in the hardware are saved here.
	More information: Read section <i>13.6 Write WLAN log file</i> .
DLOGKEYBOARD.EXE	Software keyboard main program
KEYBOARD.CFG	The layout and functionality of the software keyboard are set here.

Supported language codes

The following language codes are supported during text file loading. Currently only **ENG** and **GER** are available. Other languages can be created as needed (refer to *Command line parameters* on next page).

ENG	English	CHS	Chinese
GER	German	KOR	Korean
FRA	French	DNK	Danish
ESP	Spanish	JPN	Japanese
SWE	Swedish	GRC	Greek
ITA	Italian		

Only ASCII files can be loaded at this time. UNICODE is not supported.

Loading language files

Text files for DLoG Config are loaded when the program is started. If a text file is not available in the desired language, the system default text (in German) is used for the dialogs.

Command line parameters

The parameter **MAKETEXT** is available to translate software into foreign languages. This means text resources can be exported to *.txt files. Each time a file is created, a message appears prompting the user to confirm it. Simply add the language code to the end of this newly generated text file. For example, **DLoGCfg_.txt** would then be **DLoGCfg_ENG.txt** if it contained the English text. During text file generation, files with the same name are automatically overwritten. German is the system default language. It does not need to exist as a text file. The program terminates once the text files have been generated.

5.6. Starting the program

Start DLoG Config via the Windows **Programs** menu under **Start**.

5.6.5. Password check

If a password was entered in the DLoG Config **Settings** menu, this will be requested when starting the program. The password is case-sensitive; the program terminates after three incorrect entries.

The default password ex works is **gold**. Please change this in the **Settings** menu to suit your requirements.

5.6.6. Accessing Config with Windows 7 and WES 7

As of software version 3.10, there are two different ways to access DLoG Config from the **Start** menu in Windows 7 and WES 7 based on User Account Control (UAC).

Read only	start program, read-only access
Run as Administrator	start program, full write access

5.6.7. FBWF advice at the start of the program

If the hard drive on which the config files are saved is enabled for **FBWF**, the following message appears at the DLoG Config start-up:

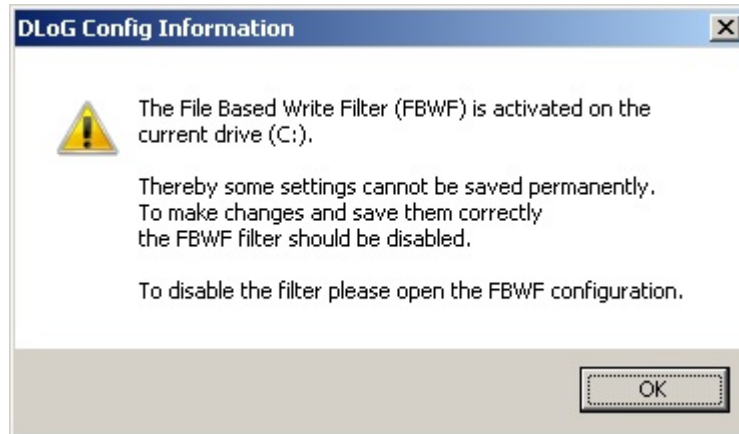


Figure 5.1: DLoG Config Information: FBWF is activated

De-activate the **FBWF Filter**, if necessary.

6. Hardware Monitor

In the **Hardware Monitor** menu, Industrial PC system information is displayed:

- DLoG serial number
- Industrial PC model
- Installed processor
- Firmware version
- BIOS version
- Inside temperature of the Industrial PC

Example DLoG MTC 6:

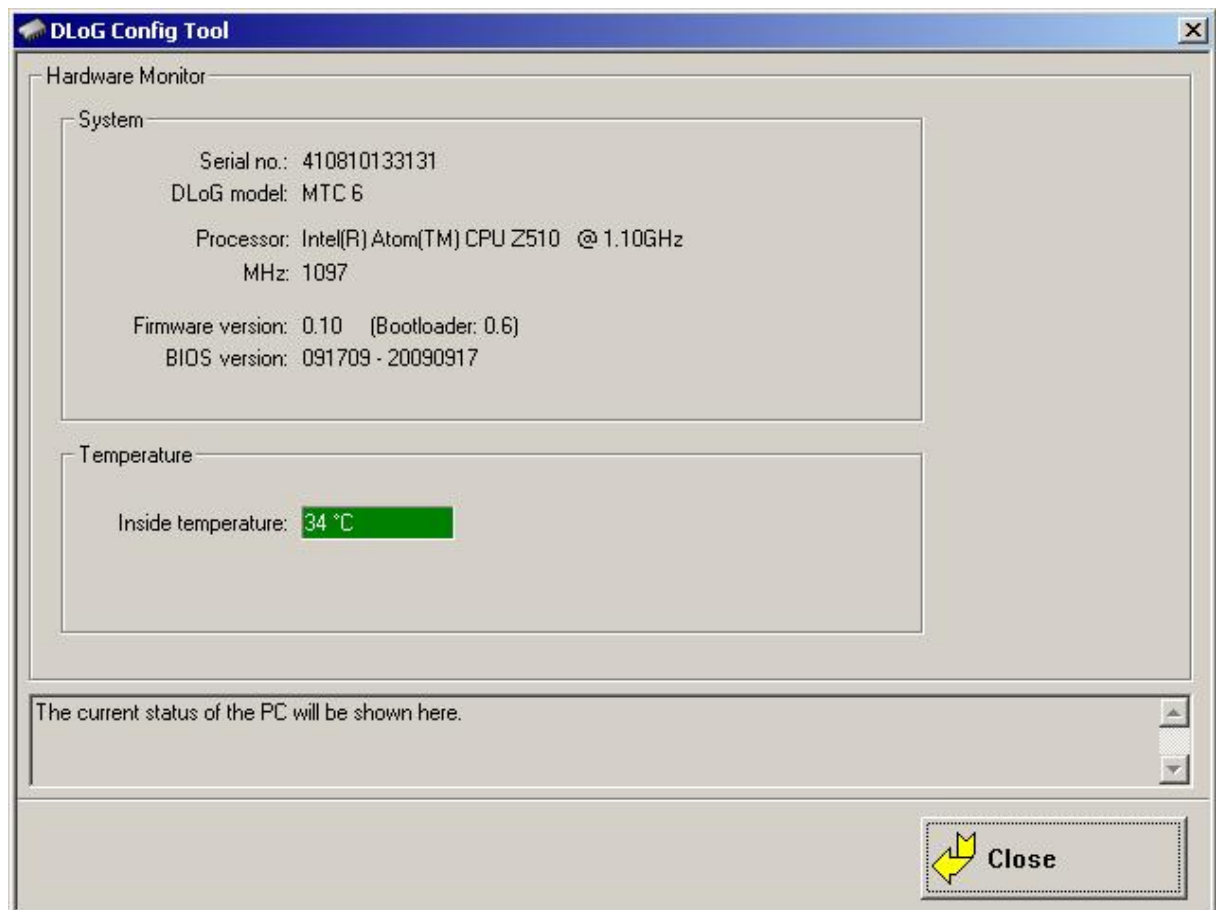


Figure 6.1: DLoG MTC 6 Hardware monitor Menu

7.Environment

The environment controller in the DLoG Industrial PC features monitoring and statistics functions. The **Environment** menu provides information on the measured values.

7.1. Information on DLoG MPC, IPC, ITC

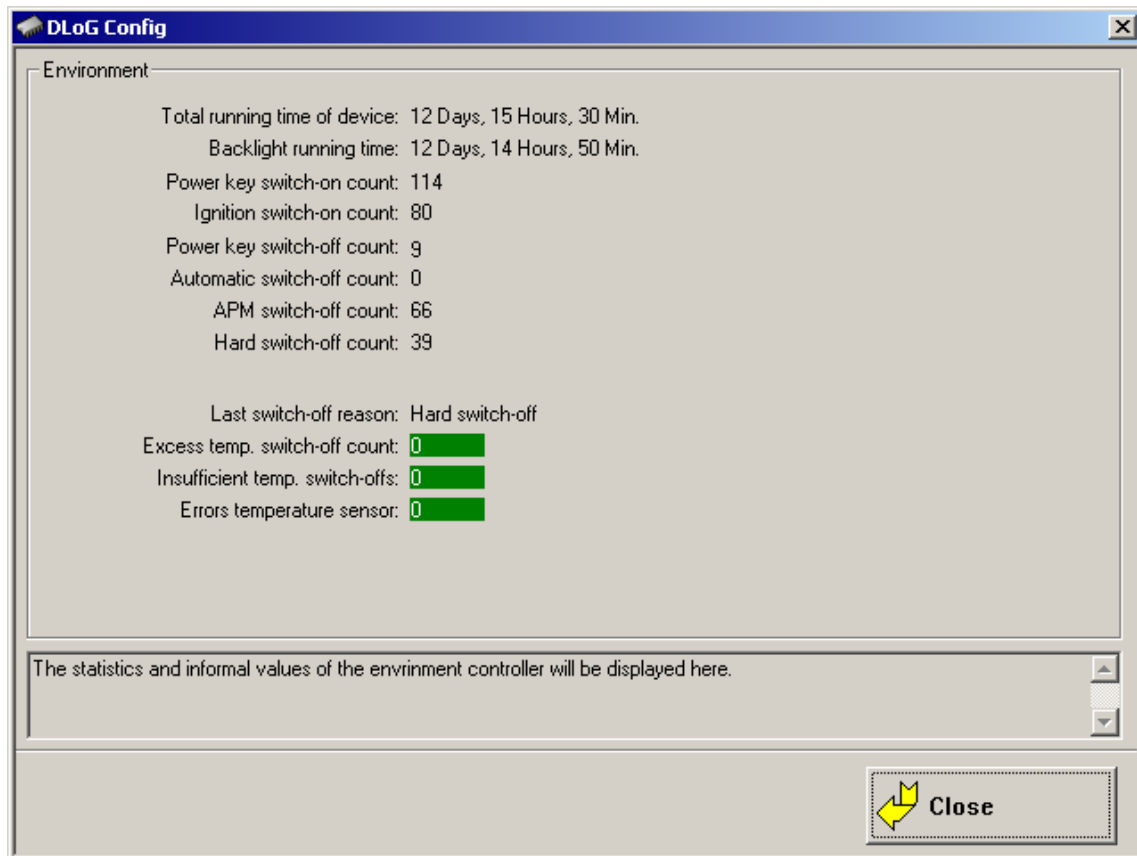


Figure 7.1: DLoG MPC, IPC and ITC Environment menu

Environment

Total running time of device	Total time the device was on
Backlight running time	Total time that backlighting was on
Power key switch-on count	Shows how often the computer was switched on with the power key
Ignition switch-on count	Shows how often the computer was switched on via the vehicle ignition
Power key switch-off count	Shows how often the computer was switched off with the power key
Automatic switch-off count	Shows how often the computer was switched off via the ignition
APM switch-off count	Shows how often the computer was switched off via "Windows Advanced Power Management" (automatically following Windows shutdown)
Hard switch-off count	Shows how often the computer was turned off using 'hard' switch-off
Last switch-off reason	The cause of the last switch-off
Excess temp. switch-off count	Shows how often the computer switched off due to excess temperature
Insufficient temp. switch-offs	Shows how often the computer switched off due to insufficient temperature
Errors temperature sensor	Shows how often temperature sensor errors occurred. If this error message occurs frequently, please send your unit in to be serviced.

7.2. Information on DLoG MTC 6

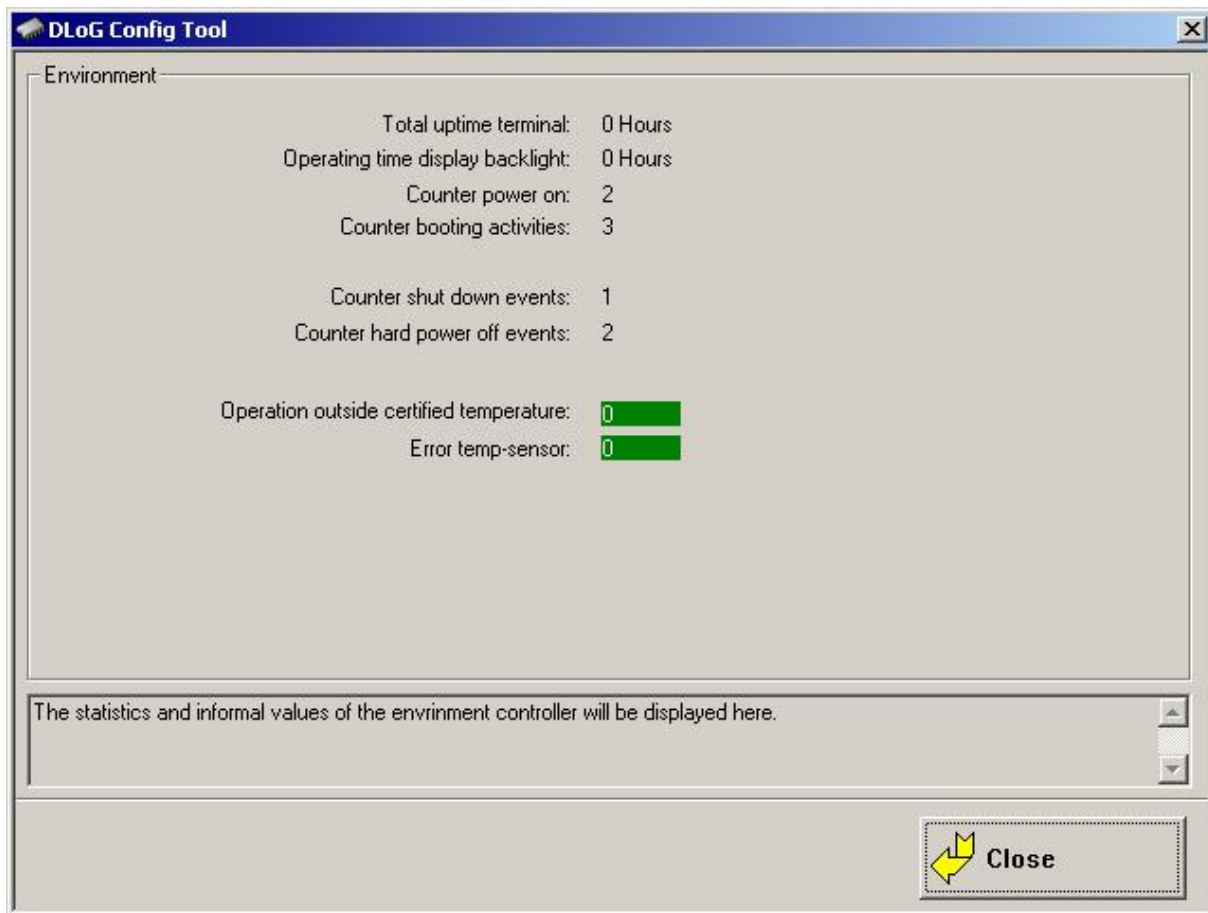


Figure 7.2: DLoG MTC 6 Environment menu

Total uptime terminal	Total time the device was on
Operating time display backlight	Total time that backlighting was on
Counter power on	Shows how often the computer was switched on with the power key
Counter booting activities	Shows how often the computer was switched on via the vehicle ignition
Counter shut down events	Shows how often the computer was switched off via the ignition

Counter hard power off events	Shows how often the computer was turned off using 'hard' switch-off
Operation outside certified temperature	Shows how often the computer switched off due to excess temperature
Error temp sensor	Shows how often temperature sensor errors occurred. If this error message occurs frequently, please send your unit in to be serviced.

8. Automatic Switch-off

In the **Automatic Switch-off** menu, the behaviour of computer switch-on and switch-off is defined.

8.1. Configuration dialog on DLoG MPC, IPC, ITC

The top left of the menu shows whether the option **Automatic Switch-off** is available and activated.

The option can be activated in the **Software Activation** menu (after purchasing the option).

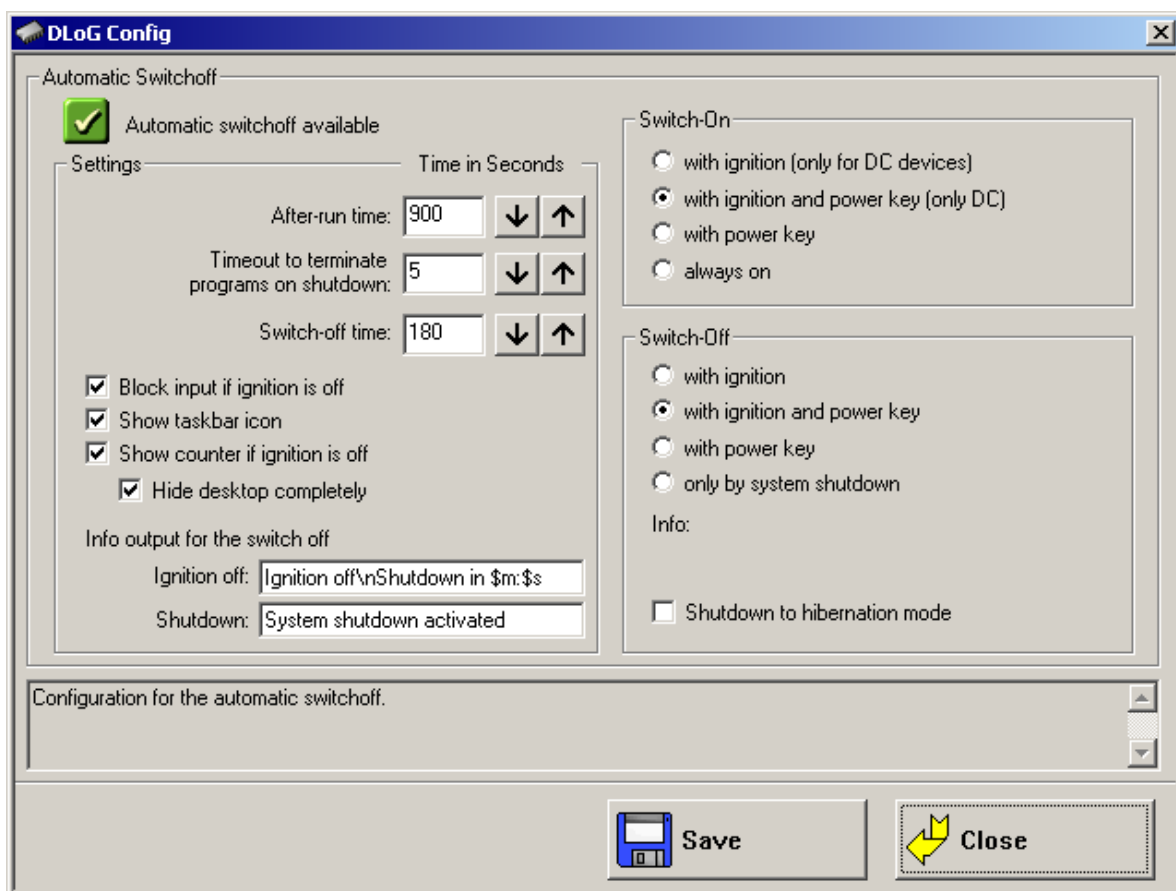






Figure 8.1: Automatic Switch-off menu on DLoG MPC, IPC, ITC

Don't forget to save these settings with the **Save** button.

Settings

After-run time and Timeout to terminate programs on shutdown	<p>If you do not want the computer to shut down immediately after switching it off using the ignition or power key, but rather it should remain on for a time, then enter an after-run time (in seconds) here.</p> <p>Shutdown times The length of time until shutdown consists of two counters:</p> <p>1. After-run time The after-run time begins with the switching off of the ignition. The shutdown counter is displayed on the monitor (according to the settings). In this countdown the after-run time is counted downwards. If the after-run time has elapsed, a message for the shutdown will be displayed in the Shutdown dialog. During this time, the computer can be returned to normal operating status with the ignition.</p> <p>2. Timeout to terminate programs Next, all applications are informed that Windows will shutdown. After this, the timeout begins counting down – but a counter is no longer displayed in the Shutdown dialog. When the timeout elapses, there will be a 'hard' switch-off of all applications that were still running. Then the system shutdown is started.</p>
Switch-off time	<p>In order to allow enough time for the system shutdown after the program timeout, set the switch-off time to at least 20 s plus the program timeout. Settings lower than this value will cause a warning to appear when data is being saved.</p>
Block input if ignition is off	<p>If the ignition of the connected vehicle is off, all input to the computer may be blocked.</p>

Show taskbar icon	<p>Selecting this options creates a symbol for DLoG Config in the taskbar.</p> <p>The symbol indicates the power status as follows:</p> <p> Green: Power status is OK; ignition is on.</p> <p> Flashing yellow and red: The ignition has been switched off and the after-run time is counting down.</p> <p> Red: The computer is in shutdown or switch-off mode.</p> <p> Unable to read power status.</p> <p>Double-click or right-click with the mouse to open a popup menu where DLoG Config can be started.</p>
Show counter if ignition is off	<p>A small dialog is displayed in the foreground where a counter counts down the after-run time until shutdown. Depending on the option Block input, a Shutdown button is also shown that allows the user to immediately start the shutdown.</p>
Hide desktop completely	<p>The displayed counter dialog is opened in Fullscreen mode, covering the entire desktop. Large, easy-to-read text is displayed automatically.</p>
Info output for the switch-off	<p>Enter any text here for the after-run time counter and the shutdown process. A line break in the text can be entered with '\n'.</p> <p>The after-run time counter is defined in '\$m' for minutes and '\$s' for seconds. These text codes are case-sensitive.</p>
Ignition off	<p>Text for the display time</p>
Shutdown	<p>Text for the display time</p>

8.1.1. Switch-On

with ignition

Only for DC devices:

The computer switches on automatically when the ignition is started. It cannot be switched on with the power key.

Caution:
Property
damage

Switch-on with ignition is only allowed with DC devices; this blocks AC devices and they cannot be restarted.

with ignition
and power key

Only for DC devices:

The computer can be switched on with the power key if the ignition is on. It cannot be switched on with the power key alone.

Caution:
Property
damage

Switch-on with ignition and power key is only allowed with DC devices; this blocks AC devices and they cannot be restarted.

with power key

The Industrial PC can be switched on with the power key.

always on

The DLoG Industrial PC switches on as soon as it is supplied with power. It is not necessary to press the power key or start the ignition.

8.1.2. Switch-Off

with ignition	<u>Only for DC devices with automatic switch-off:</u> Automatic switch-off is activated when the ignition is switched off.
with ignition and power key	<u>Only for DC devices with automatic switch-off:</u> Automatic switch-off is activated when the ignition is switched off. The power key shortens the defined after-run time and initiates computer shutdown.
with power key	The computer is shut down or switched off with the power key (if no automatic switch-off is available, a 'hard' switch-off takes place).
only by system shutdown	The computer cannot be switched off using the ignition or the power key; it has to be shut down in the Start menu.
Shutdown to hibernation mode	If the computer is switched off using the ignition or the power key, it goes into hibernation mode. When this happens, a copy of the main memory is written to a file, accelerating the startup of the computer. This option must be activated in the power management centre of the computer (Power Properties).

8.1.3. Special features of the switch-on/-off options

On DLoG MPC, IPC and ITC the following message is displayed upon activating a switch-on option with ignition:



Figure 8.2: Automatic switch-on message for DC/AC devices

This information appears for safety's sake each time a **switch-on with ignition** option is activated.

Caution: Property damage	Switch-on with ignition is only allowed with DC devices; this blocks AC devices and they cannot be restarted.
---	--

8.1.4. Without automatic switch-off

The following symbol will be displayed in the uppermost line of the dialog if the **automatic switch-off** option is not available:

All switch-on options are available; when switching off, however, the options with ignition cannot be selected.

8.1.5. With automatic switch-off

When the **automatic switch-off** option is available, the following symbol will be displayed in the dialog: . When the switch-on option **with ignition** or **always on** is chosen, switching off using the power key is not possible.

If the option **Switch-off with power key** was previously selected, a corresponding message is displayed to the user. Then the switch-off option is automatically set to **only by system shutdown** and the option **with power key** cannot be selected.

8.2. Configuration dialog on DLoG MTC 6

Caution:
Property
damage

Each DLoG MTC 6 has been equipped with an automatic shutdown function. This function has been pre-configured for vehicle use already and governs the power-up and shutdown procedures for the DLoG MTC 6 connected to a car ignition.

The automatic shutdown settings for DLoG MTC 6 devices that are not going to be installed into a vehicle must also be correctly set for the device type!

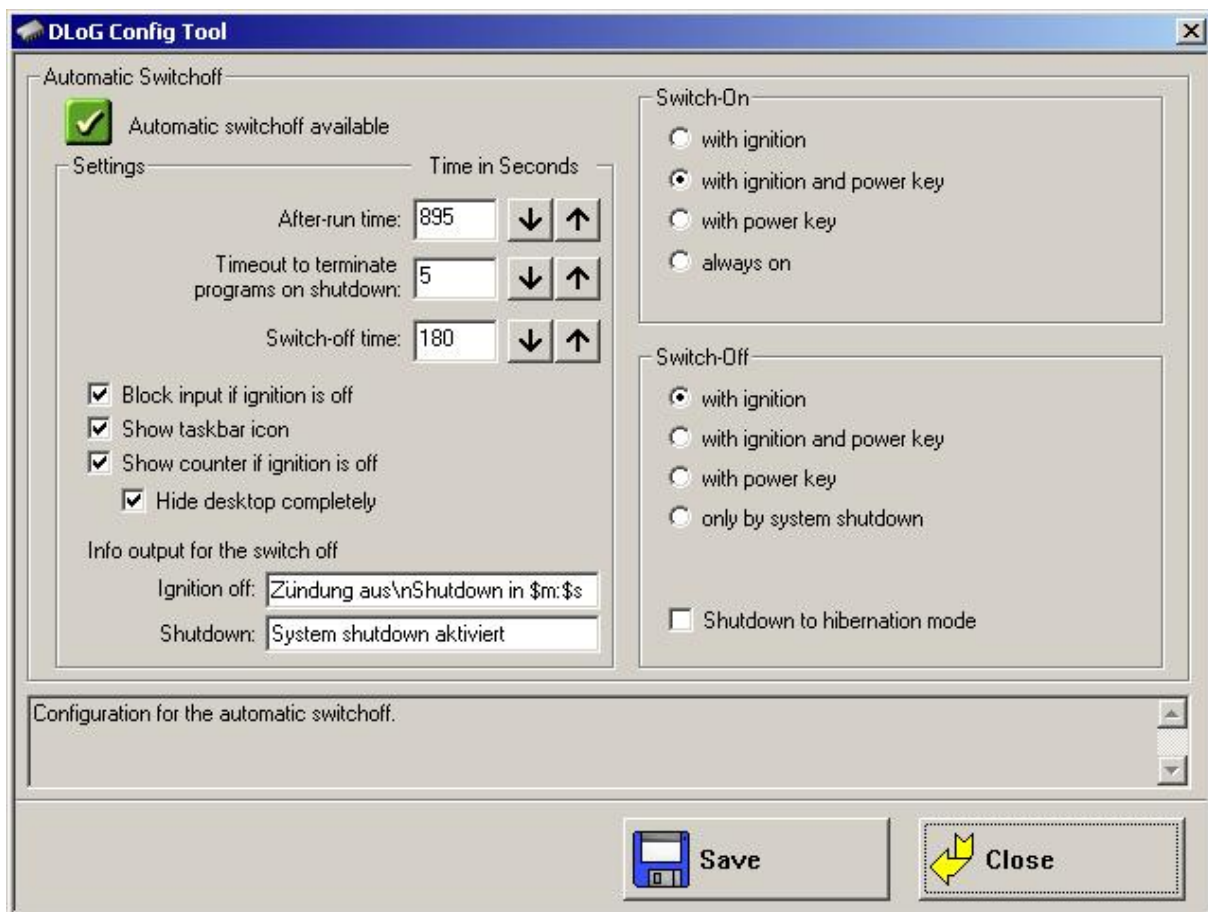


Figure 8.3: Automatic Switch-off menu on DLoG MTC 6

Don't forget to save these settings with the **Save** button.

Settings

The settings on the DLoG MTC 6 correspond to the MPC/IPC/ITC settings in section *8.1 Configuration dialog on DLoG MPC, IPC, ITC*.

Switch on

with ignition	The Industrial PC switches on automatically when the ignition is started. It cannot be switched on with the power key.
with ignition and power key	The Industrial PC can be switched on with the power key if the ignition is on. It cannot be switched on with the power key alone.
with power key	The Industrial PC can be switched on with the power key.
always on	The DLoG Industrial PC switches on as soon as it is supplied with power. It is not necessary to press the power key or start the ignition.

Switch off

with ignition	Automatic switch-off is activated when the ignition is switched off. The power key shortens the defined after-run time and initiates computer shutdown.
with ignition and power key	Automatic switch-off is activated when the ignition is switched off. The power key must be pressed to shut down the Industrial PC.
with power key	The Industrial PC is shut down or switched off with the power key.
only by system shutdown	The computer cannot be switched off using the ignition or the power key; it has to be shut down in the Start menu.

Shutdown
to hibernation mode

If the Industrial PC is switched off using the ignition or the power key, it goes into hibernation mode. When this happens, a copy of the main memory is written to a file, accelerating the startup of the computer. This option must be activated in the **power management centre** of the computer (**Power Properties**).

9. Front Panel

In the **Front Panel** menu, the keys (also called soft keys) located on the DLoG Industrial PC front panel can be programmed.

This does not apply to the keys **Power on/off**, **+/- Brightness** and **Backlight on/off**!

All keys depicted in grey/white can have two assignments. Use <SHIFT> to switch between the assignments.

Character strings cannot be assigned to single keys. Only one character per key is possible. The keys <Alt>, <Ctrl> and <Shift> may be used in combination, e.g. <Ctrl> <Alt> <F1>.

9.1. Configuration dialog on DLoG MPC, IPC, ITC

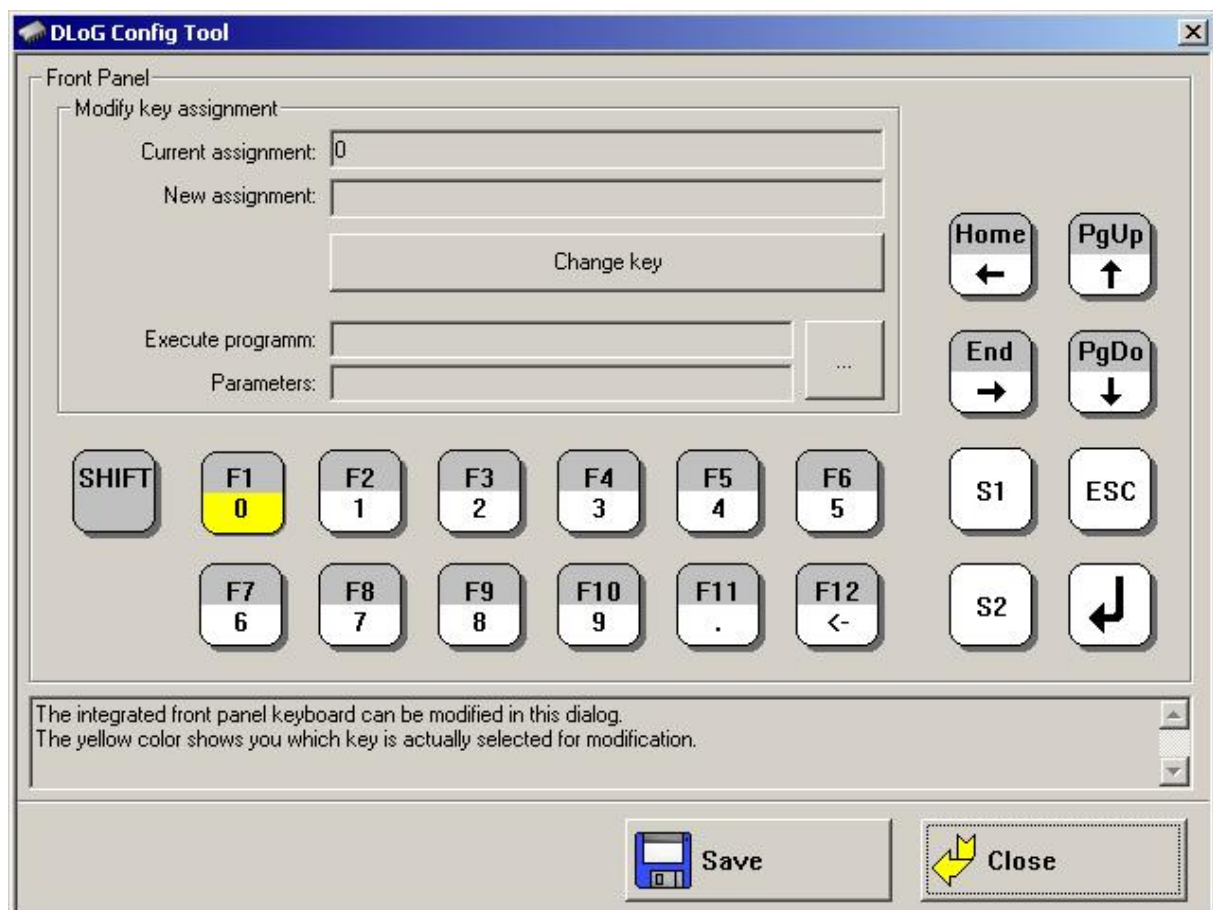


Figure 9.1: DLoG MPC, IPC and ITC Front Panel menu

9.2. Configuration dialog on DLoG MTC 6

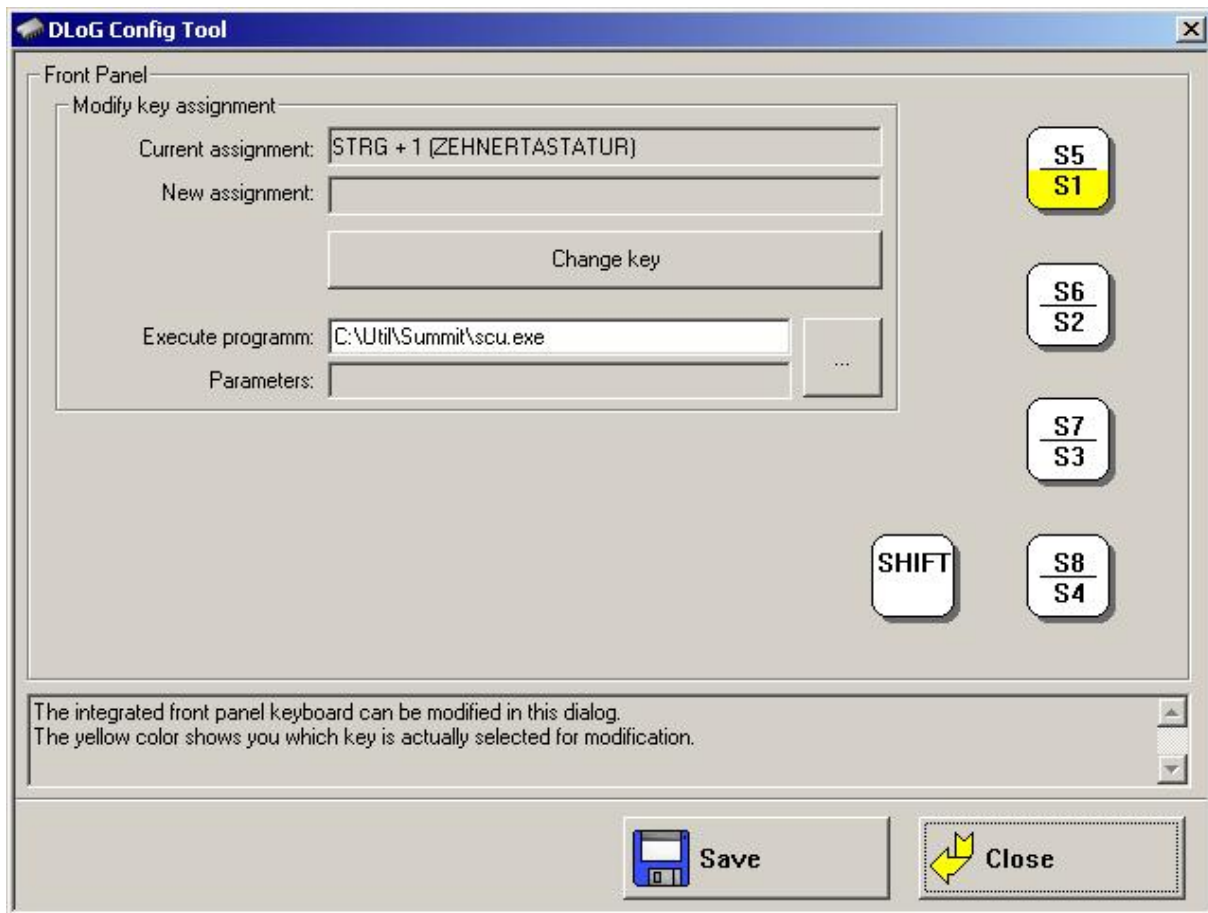


Figure 9.2: DLoG MTC 6 Front Panel Keyboard menu

9.3. Assigning front panel keys

Identical for all DLoG Industrial PCs!

1. Select the key to be changed, it appears in the **Current assignment** field.
2. Press the **Change key** button. The **Define key** input dialog appears.
3. Press the desired key assignment. The selected key assignment appears in the **New assignment** field.
4. Save these settings with the **Save** button.

If an assignment is given twice to the same key, a corresponding warning message appears.

9.4. Deleting front panel key assignment

To delete a front panel key assignment, delete the contents of the field and save it with the **Save** button.

9.5. Starting an external program with the front panel keys

A front panel button is assigned with a program call by using the **Execute program** and **Parameter** settings.

1. Open the file selection and select a program file (.exe).
2. Now the **Parameter** field can be edited.
If necessary, input the desired call parameter.
3. Save the settings.

The front panel button is now assigned the program call; restarting the computer is not necessary.

10. Common System Settings

In the **Common System Settings** menu, parts of the Windows System can be configured. The content of this menu differs depending on the operating system.

10.1. Windows 2000, XP, XP Embedded

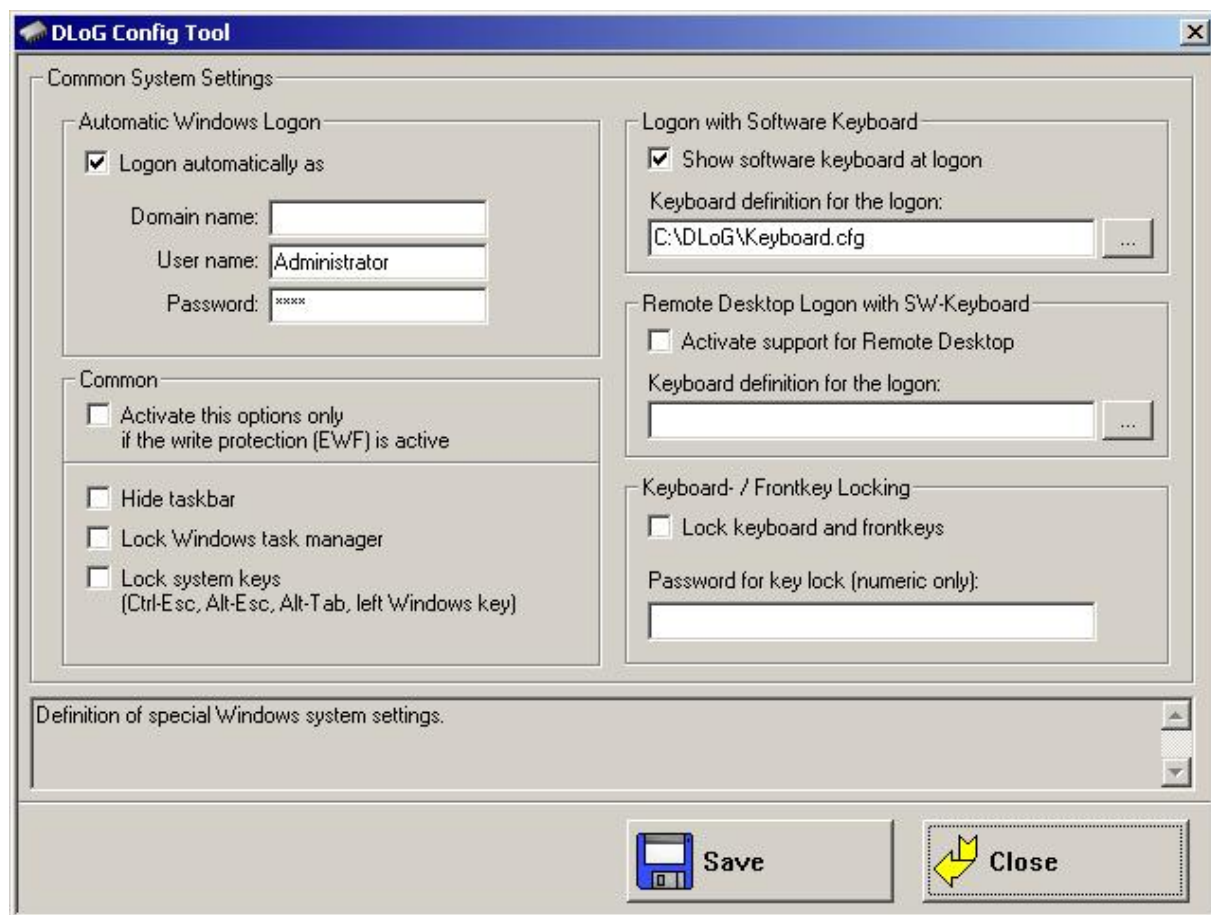


Figure 10.1: Common System Settings MS Windows 2000, XP, XP Embedded

10.1.6. Automatic Windows Logon

Logon automatically as Enable or disable the Automatic Windows Logon.

Domain name Logon data for the Automatic Windows Logon must be entered.
User name
Password

10.1.7. Logon with software keyboard

Show software keyboard at logon	If this check box is selected, the software keyboard is already available to the user upon logging in.
Keyboard definition for the logon	A CFG file and hence a particular keyboard layout can be specified for the logon (it may differ from the default keyboard). Changes to this setting are activated only after the computer has been restarted.

Common

Activate this option only if the write protection (EWF) is active

This setting is only useful for Microsoft Windows XP Embedded!

Here you can define whether the following options relating to the taskbar, task manager and system keys are to be valid only when EWF write protection is active.

For example: When the system administrator is working on the computer and has deactivated EWF write protection, the taskbar, task manager and system keys are available. These cannot be accessed by users working with EWF write protection.

Hide taskbar

Taskbar is hidden.

Lock Windows task manager

Task manager cannot be accessed.

Lock system keys

The keys <Ctrl-Esc>, <Alt-Esc>, <Alt-Tab> and the left Windows key are locked.

Remote Desktop logon with SW-Keyboard

Activate support for Remote Desktop	After a remote access to the current computer, the software keyboard can be activated for logging back in.
Keyboard definition for logon	The CFG file for the software keyboard is specified, e.g. "C:\DLoG\Keyboard.cfg"

Keyboard / front key locking

Lock keyboard and front keys	Using this setting , all keyboard inputs/key inputs on the DLoG industrial computer can be locked. <ul style="list-style-type: none">- Front panel buttons- External keyboard- Software keyboard (via touch screen)
------------------------------	---

Locking is only active after restarting the computer.

Password for key lock (numeric only)	<p>Locking is only activated if a max. 20 character long keyword is defined. For this only <u>numbers</u> are used.</p> <p>During activated lock, the password dialog for releasing the keyboard appears when pressing (or creating) any key (except for power/brightness keys). The password can <u>only</u> be entered using the touch screen and the keys displayed in the dialog.</p>
--------------------------------------	---



Figure 10.2: Password request for locked keyboard lock

Only the administrator can remove the lock during successful locking.

10.2. Windows 7 and WES 7

10.2.8. Automatic Windows Logon

Logon automatically as	Enable or disable the Automatic Windows Logon.
Domain name	Logon data for the Automatic Windows Logon must be entered.
User name	
Password	

10.2.9. Common

Activate
this option only
if the write protection
(EWF) is active

This setting is only useful for MS Windows XP Embedded and WES 7!

Here you can define whether the following options relating to the taskbar, task manager and system keys are to be valid only when EWF write protection is active.

For example: When the system administrator is working on the computer and has deactivated EWF write protection, the taskbar, task manager and system keys are available. These cannot be accessed by users working with EWF write protection.

Hide taskbar

Taskbar is hidden.

Lock Windows
task manager

Task manager cannot be accessed.

Lock system keys

The keys <Ctrl-Esc>, <Alt-Esc>, <Alt-Tab> and the left Windows key are locked.

10.2.10. Software keyboard

Show software keyboard at logon	If this check box is selected, the software keyboard is already available to the user upon logging in.
Keyboard definition for the logon	A CFG file and hence a particular keyboard layout can be specified for the logon (it may differ from the default keyboard). Changes to this setting are activated only after the computer has been restarted.
Display in user session	If this checkbox is activated, the software keyboard for the system in operation is displayed.
Keyboard definition for the user session	A CFG file and hence a particular keyboard layout can be specified for the user session (it may differ from the default keyboard). Changes to this setting are activated only after the computer has been restarted.

10.2.11. Keyboard / front key locking

Lock keyboard
and front keys

Using this setting , all keyboard inputs/key inputs on the DLoG industrial computer can be locked.

- Front panel buttons
- External keyboard
- Software keyboard (via touch screen)

Locking is only active after restarting the computer.

Password for
key lock
(numeric only)

Locking is only activated if a max. 20 character long keyword is defined. For this only numbers are used.

During activated lock, the password dialog for releasing the keyboard appears when pressing (or creating) any key (except for power/brightness keys). The password can only be entered using the touch screen and the keys displayed in the dialog.



Figure 10.3: Password request for locked keyboard lock

Only the administrator can remove the lock during successful locking.

11. Network Settings

This configuration dialog is identical for all DLoG Industrial PCs.

11.1. Common

In the **Common** menu under **Network Settings**, you can make settings for the network adapter (LAN and WLAN).

Find information about settings for the network adapter currently selected in the **Current settings** window.

The **System Settings** button opens the Windows dialog for networks.

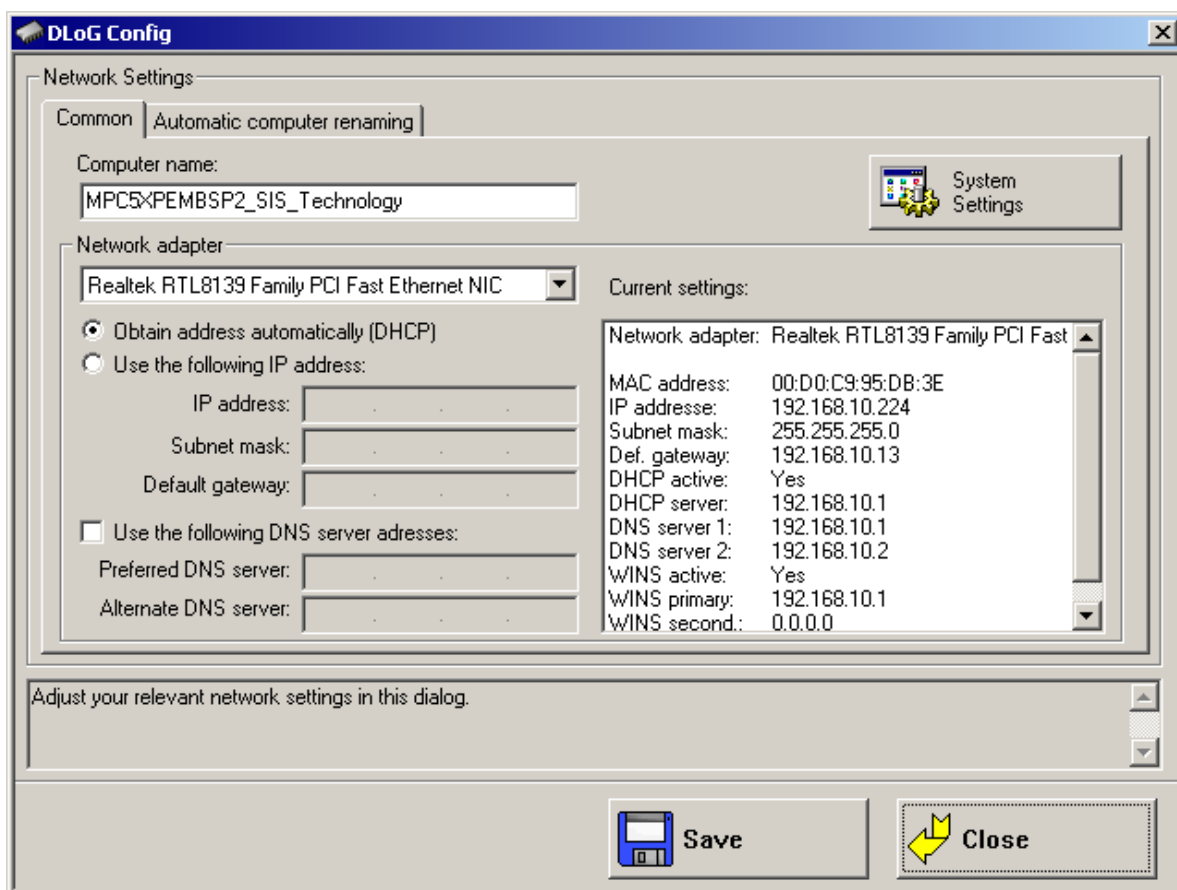


Figure 11.1: Network Settings | Common menu

Computer name

The DLoG Industrial PC host name can be changed.

Network adapter

Selection list	Select the Network adapter
Obtain address automatically (DHCP)	With this setting, the network configuration is obtained from a DHCP server.
Use the following IP address	Here the IP address, subnet mask and default gateway can be entered manually.
Use the following DNS server addresses	Here the DNS servers to be used can be entered manually.

11.2. Automatic Computer Renaming

The settings in the **Automatic Computer Renaming** menu under **Network Settings** are used for the automatic assignment of computer names. Allocation of different computer names is supported by entering the MAC address.

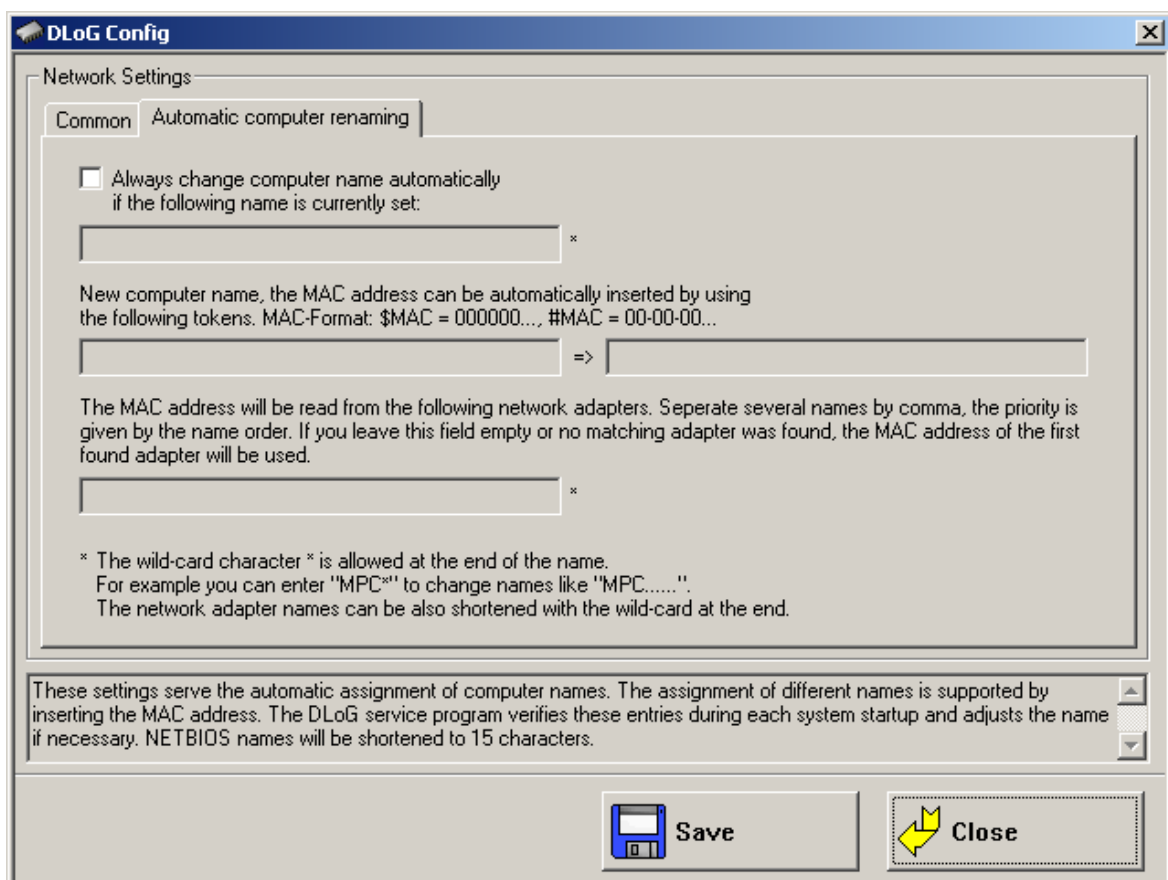


Figure 11.2: Network Settings | Automatic Computer Renaming

12. Network Startup

You can define programs in this menu which should be started after a network connection is successfully established with a server (after every boot of the operating system).

This configuration dialog is identical for the DLoG MPC, IPC, ITC and MTC.

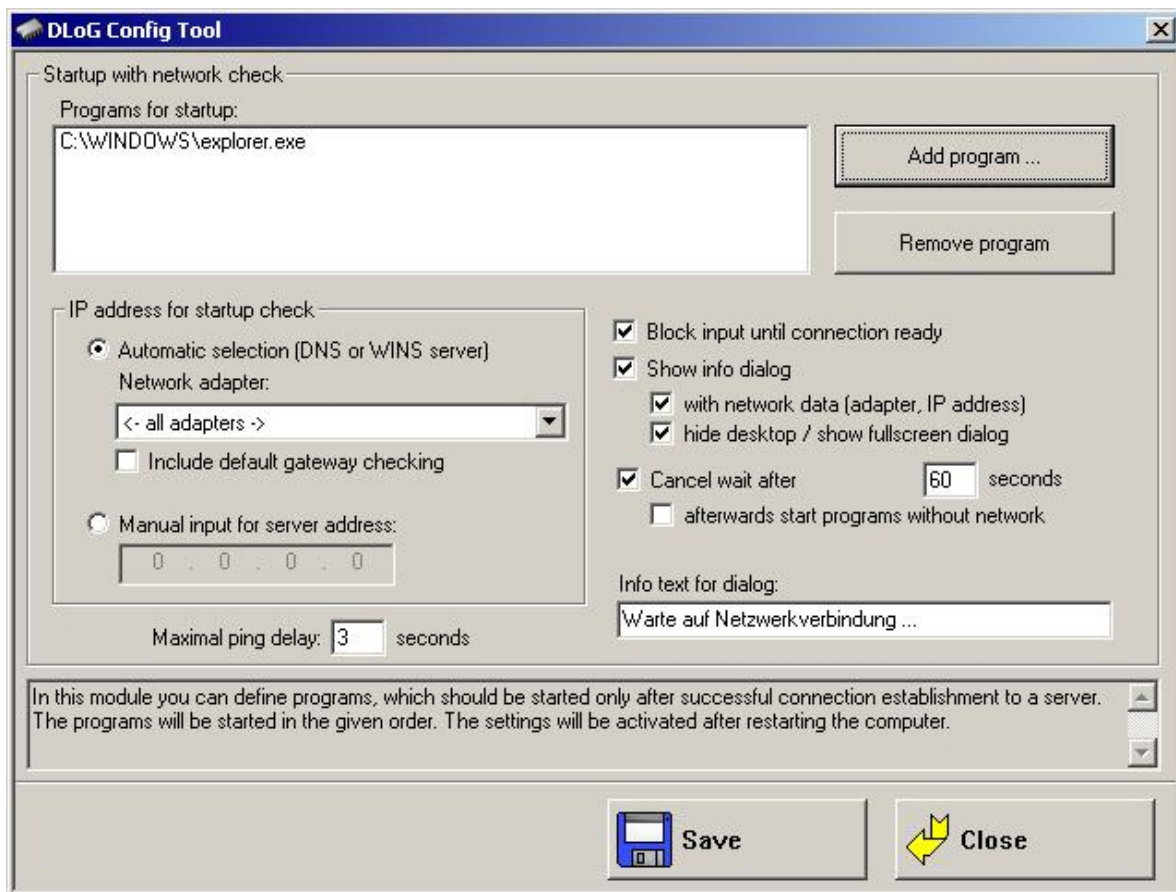


Figure 12.1: Network Startup

Autostart programs

Multiple programs can be specified. The programs are started in the order given. The settings are activated only after the computer is restarted.

- | | |
|----------------|--|
| Add program | The Windows file selection dialog is shown and you can select a program. |
| Remove program | Remove a selected program. |

IP address for startup check

Automatic selection (DNS or WINS server) of network adapter	The desired network adapter can be specified here. Possible selections are: <ul style="list-style-type: none">- All adapters- COM2 VPN adapter- IntelR PRO / 100VE Network Connection
Include default gateway in check	If this checkbox is checked, then the default gateway is also included when searching for an IP address.
Manual input of the server address	If a server address is specified here, the programs are only started when the DLoG computer has established a connection to that IP address.
Maximum ping time	Time to wait for a response after running a ping.
Block input until connection established	Until the network connection is established, no input can be performed on the computer.
Show waiting dialog	A waiting dialog can be shown, optionally with network information and in full-screen mode.
Stop waiting after ... seconds	If no network connection has been established, the wait can be stopped after the time given here.
Then start programs without network	The programs can also be started without a network connection.
Info text in waiting dialog	The text entered here will be displayed on the waiting dialog.

13. WLAN

In this menu, you can configure whether a **WLAN status window** will be displayed on the DLoG Industrial PC, with information about signal strength and quality of the WLAN connection. This configuration dialog is identical for the DLoG MPC, IPC, ITC and MTC.

13.1. Information on the WLAN status window

Example of a WLAN status window

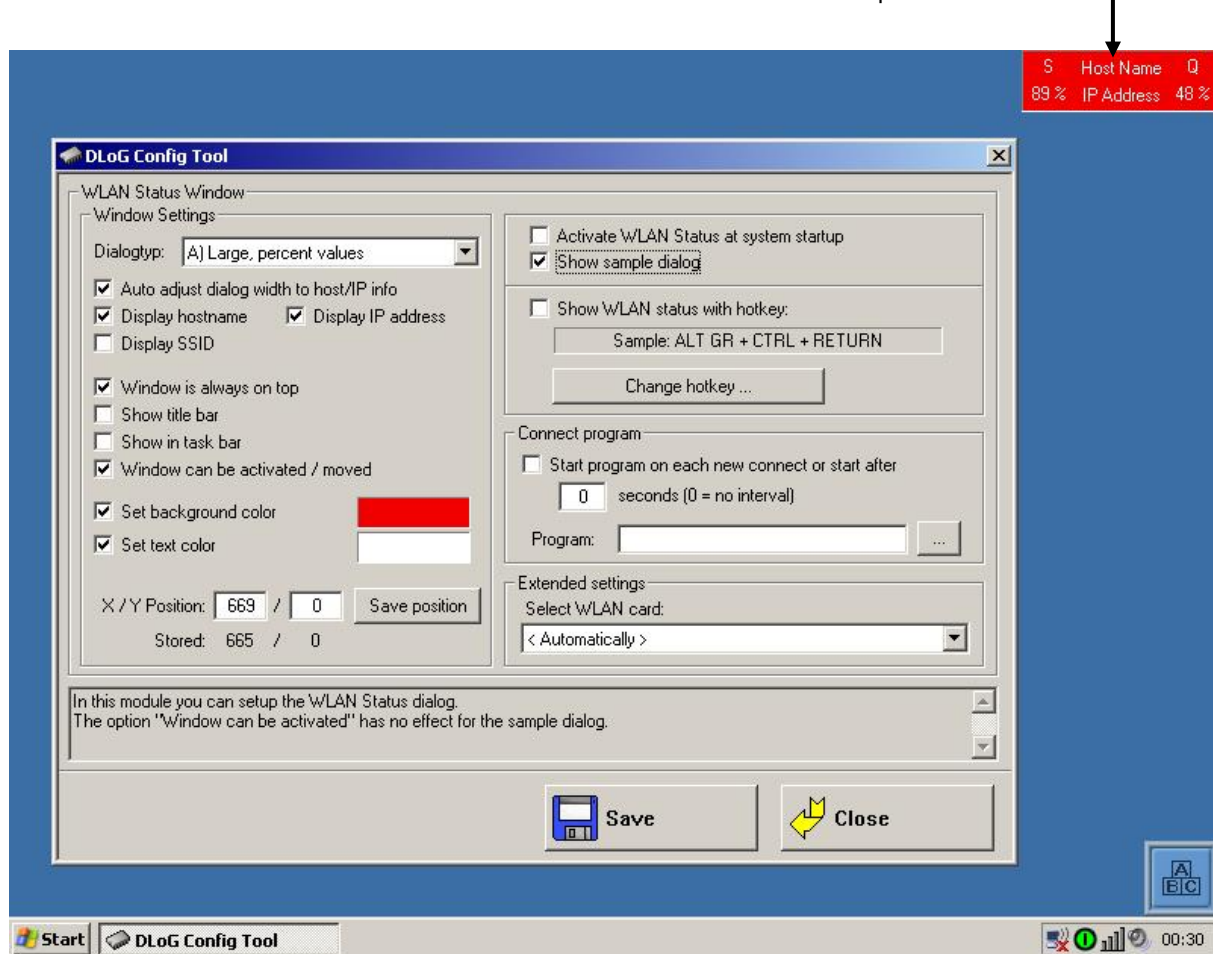


Figure 13.1: WLAN Status Window

Color legend for signal strength:	Color legend for quality:
Red = signal strength poor	Red = poor quality
Yellow = signal strength fair	Yellow = fair quality
Green = signal strength good	Green = good quality

13.2. Signal strength and quality

S = Signal strength	<p>This value provides information about the strength of the signal received by the DLoG computer.</p> <p>The signal strength can be displayed as a dBm value, in percentages, or as a diagram, depending on the configuration selected in the WLAN dialog.</p>
Q = Quality	<p>This value provides information about the quality of the signal received by the DLoG computer.</p> <p>The quality can be displayed as a dB value, as a percentage, or as a diagram, depending on the configuration selected in the WLAN dialog.</p>
Host name	<p>The host name is displayed according to the setting in the WLAN menu.</p>
IP address	<p>The IP address of the DLoG Industrial PC is displayed according to the setting in the WLAN menu.</p>

13.3. Basic legend for signal strength

Signal strength alone says nothing about the quality of the signal. The quality depends on the ratio of signal to noise (SNR = Signal/Noise Ratio = RSSI, Radio Signal Strength Indicator).

The following values are a good rule of thumb:

- Signal strengths less than -70 dBm are good.
- Quality between 10 and 20 dB is good.

Important: These values are only approximate and depend on many factors (different sensitivity of receivers, data bandwidth, etc.)

13.4. WLAN status window settings dialog

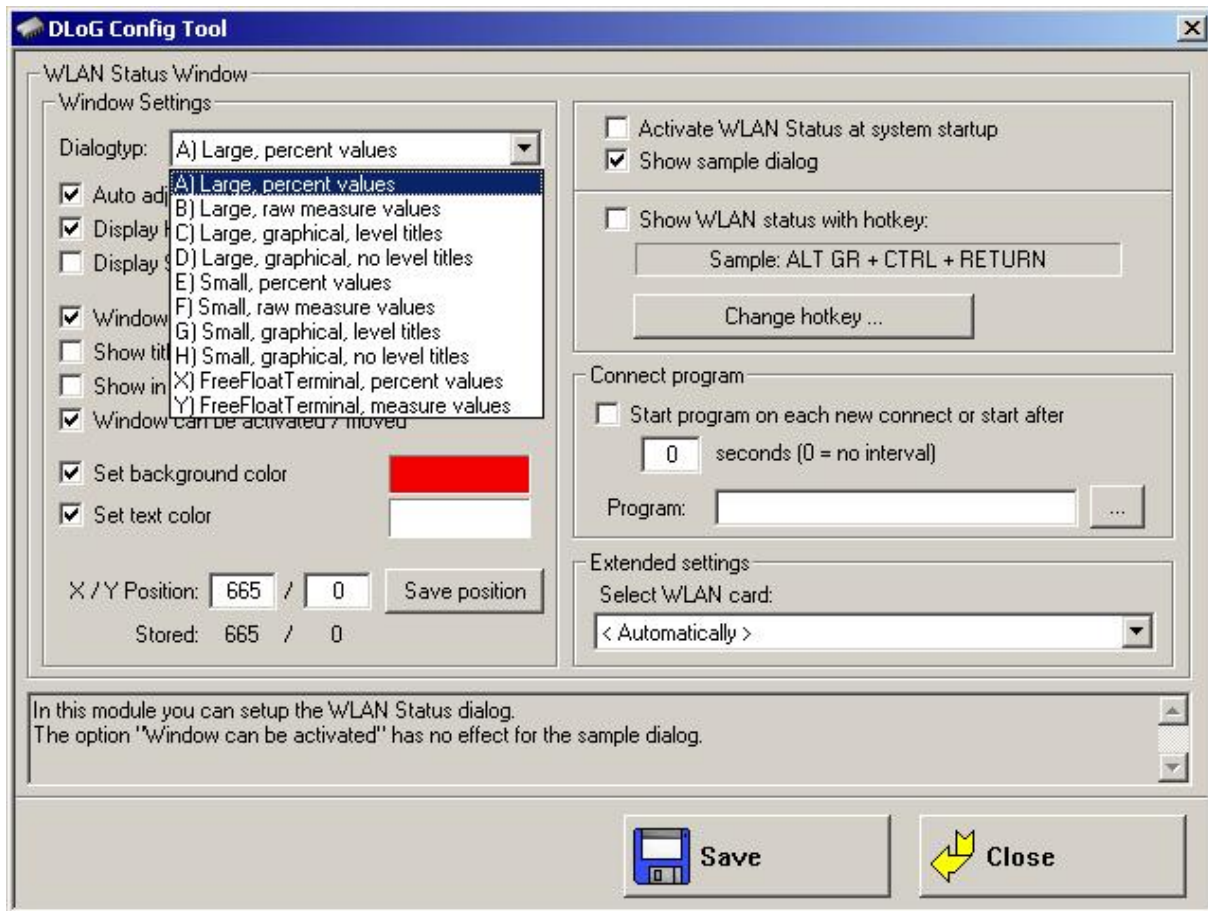


Figure 13.2: WLAN Status Window dialog type

Window settings

Dialog type	In the selection list, select the desired design for the WLAN status window. The signal strength and quality can be displayed as dBm values, percentages, or a bar chart.
Auto adjust Dialog width to host/IP info	The width of the WLAN status window can be defined as a fixed value. Otherwise, it depends on the length of the host name and the IP address.
Display host name	Shows the host name in the WLAN status window.
Show IP address	Shows the IP address in the WLAN status window.

Display SSID	SSID (Service Set Identifier) is displayed in the WLAN Status Window.
Windows is always on top	The WLAN status window will always be displayed on top of other windows.
Show title bar	Display the WLAN status window with a title bar.
Show in task bar	The WLAN status window will appear in the task bar.
Window can be activated / moved	The position on the WLAN status window on the screen can be moved. If the title bar is displayed, the window can be activated.
Set background color	The background color of the WLAN status window is selected. Click the color field to see a palette of all available colors.
Set text color	The text color of the WLAN status window is selected. Click the color field to see a palette of all available colors.
X/Y position	<p>The position of the WLAN status window on the screen is defined here. The window will appear at this position after every program start.</p> <p>If you move the example dialog around the screen using the mouse pointer, the current coordinates will automatically be entered.</p> <p>Then click on Save position.</p>
Activate WLAN status at system startup	This checkbox must be activated for the WLAN status window to be displayed.
Show sample dialog	If clicked, the settings made in the dialog will be demonstrated in an example window.
Show WLAN status with hotkey	<p>The WLAN status window can be turned on and off with a DLoG Industrial PC front panel key defined here.</p> <p>To be able to use this setting and as a result the front panel key (Hotkey), the DLoG Industrial PC must be restarted.</p>

Connect program

Start program on each new connect or start after ...

This setting is used to start any arbitrary software program.

The program may optionally be started:

- after every entry into the WLAN area
- or periodically; if necessary, enter the time interval.

If a WLAN connection exists, the program is started at the specified intervals.

Note: the prerequisite is that there is a functioning WLAN connection!

An application example: The DLoG Industrial PC on a forklift has an online connection to the warehouse management database. If the forklift leaves the WLAN area, this online connection is interrupted. To receive updated data immediately after entering the WLAN area again, the **Connect Program** function is used to start a database update automatically.

Program

Enter the program to be started here.

Extended settings

Select WLAN card

Detect the radio card automatically or select it from the list (see also *WLAN status window and radio cards* next page).

Finally, don't forget to **Save!**

13.5. WLAN status window and radio cards

The WLAN status window works exclusively with radio cards which support WMI. The WMI class is configured in "config_local.cfg" in the line "Noiseselect_01".

The WMI selection string in the format: NoiseSelect_XX=Card-Name,SELECT *

For XX, substitute a number from 01 to 20; at most 20 different WLAN cards can be supported .

For the card name, a few characters at the start of the WLAN adapter name are enough (not case sensitive).

The full SELECT string is then specified, separated by a comma.

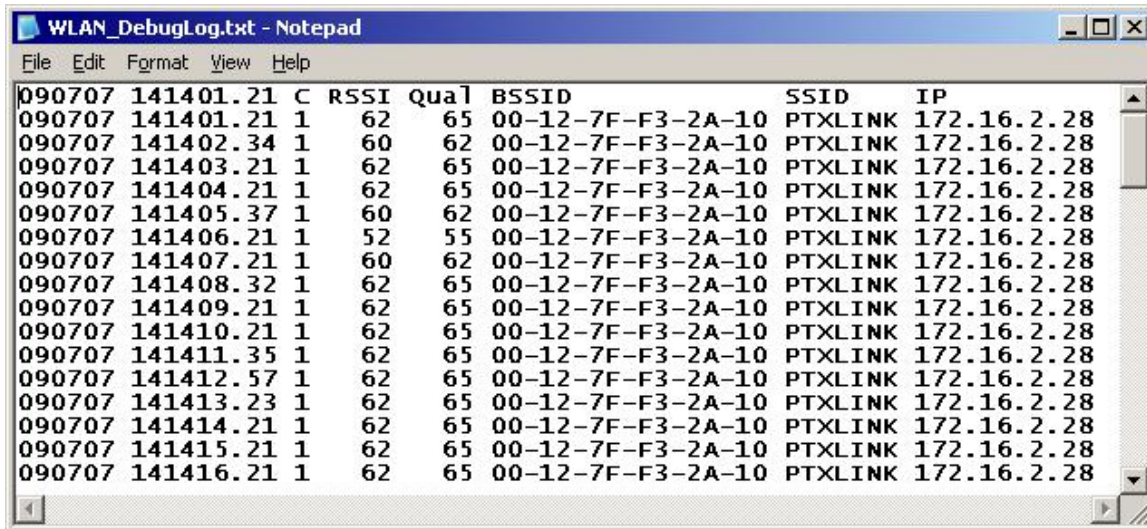
13.6. Write WLAN log file

To optimize the WLAN network, or e.g. to analyze errors in roaming, a WLAN log file can be generated using the DLoG Config program.

1. For this, edit the **Config_local.cfg** file in the **DLoG** directory of the Industrial PC (e.g. with Notepad).
2. The entry
"Debug_Logging=0"entry is located by default in section **CfgWLANStatus**
0 means: no log file will be generated.
1 means: a log file will be generated and written to the DLoG directory. Filename of the log file: WLAN_DebugLog.txt.
3. Restart the computer to activate the setting and generate the log file.

**Caution:
Property
damage**

Only generate WLAN log files temporarily for analysis purposes. Afterwards make sure to set the "Debug_Logging" entry to "0". Otherwise system errors are a threat, since if the EWF is deactivated storage media will be filled with log files (size of a WLAN log file: up to 50 MB. When this size is reached, the DLoG Config automatically creates BAK files, which are sequentially numbered.)



Date	Time	C	RSSI	Qual	BSSID	SSID	IP
090707	141401.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141402.34	1	60	62	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141403.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141404.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141405.37	1	60	62	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141406.21	1	52	55	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141407.21	1	60	62	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141408.32	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141409.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141410.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141411.35	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141412.57	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141413.23	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141414.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141415.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28
090707	141416.21	1	62	65	00-12-7F-F3-2A-10	PTXLINK	172.16.2.28

Figure 13.3: Example of a WLAN log file

Information in the WLAN log file:

The following basically applies:

- Only the information which is displayed in the WLAN status window is written in the WLAN log file (according to the definition in the DLoG Config menu **WLAN Status Window**).
- The maximum size of the WLAN log file is 50 MB. When this size is reached, the DLoG Config automatically creates BAK files, which are sequentially numbered.

The WLAN log file contains eight columns with the following information:

The column heading is displayed after every 100 lines.

- Date
- Time (to one-hundredth of a second)
- C= Connected
0 means no, 1 means yes
- RSSI signal strength
- Signal quality
- BSSID Mac address of current connected access point
- SSID of WLAN network
- IP-address of industrial computer

14. Software Activation

In the **Software activation** menu, options such as **automatic switch-off** and **software keyboard** can be activated. If these options are purchased at a later date (after the DLoG Industrial PC delivery), customers receive an activation key or a license file, which must be entered here.



The automatic switch-off function in the DLoG MTC 6 is always available and does not need to be activated.

The screenshot shows the 'DLoG Config' window with the 'Software Activation' tab selected. The dialog is divided into two main sections: 'Manual input' and 'Import license file'. In the 'Manual input' section, there is a 'Product code (4 chars):' dropdown menu currently showing 'AOFF - Automatic switchoff', and an 'Activation key (29 chars):' text input field. The 'Import license file' section contains a 'License file:' text input field and a 'Browse ...' button. At the bottom of the dialog, there is a text box with instructions: 'In this dialog you can enter or copy the license key for newly ordered features (e.g. heating, backlight control, remote maintenance, Wedge, software keyboard). The activation code is only valid for the specific serial number of one computer and the corresponding feature (product code). The features must be activated seperately one by one.' Below this text box are two buttons: 'Save' (with a floppy disk icon) and 'Close' (with a yellow arrow icon).

Figure 14.1: Software Activation menu

14.1. Activate automatic switch-off

Activate the automatic switch-off as follows:

1. Activate the **Product code** in the line **AOFF Automatic switch-off**.
2. Enter the activation key you received with the purchase of the option.
Or: Click **Search file** under **Import license file** and load the license file that contains this key.
3. **Save** the settings.

14.2. Activate software keyboard

Activate the software keyboard as follows:

1. Activate the **Product code** in the line **SWKB Software keyboard**.
2. Enter the activation key you received when you purchased the option.
Or: Click **Search file** under **Import license file** and load the license file that contains this key.
3. **Save** the settings.

After licensing, a Keys file is automatically created for the software keyboard and is stored in the Keys directory. If this file is accidentally deleted, the software keyboard will no longer function. After three minutes running time it switches itself off.

15. Enhanced Write Filter



The **Enhanced Write Filter** menu is only relevant for the embedded operating systems (XP Embedded and WES 7)!

The **Enhanced Write Filter** menu is only relevant for the Microsoft Windows XP Embedded operating system! If EWF is not installed, no changes can be performed.

This configuration dialog is identical for the DLoG MPC, IPC, ITC and MTC.

Write protection is enabled and managed in the **Enhanced Write Filter** menu. This allows you to protect the system against modification of any kind. All write accesses or modifications on an activated EWF drive will be discarded with the next restart.

EWF settings are **not** saved or loaded to import/export configurations (see section *17 Settings*).

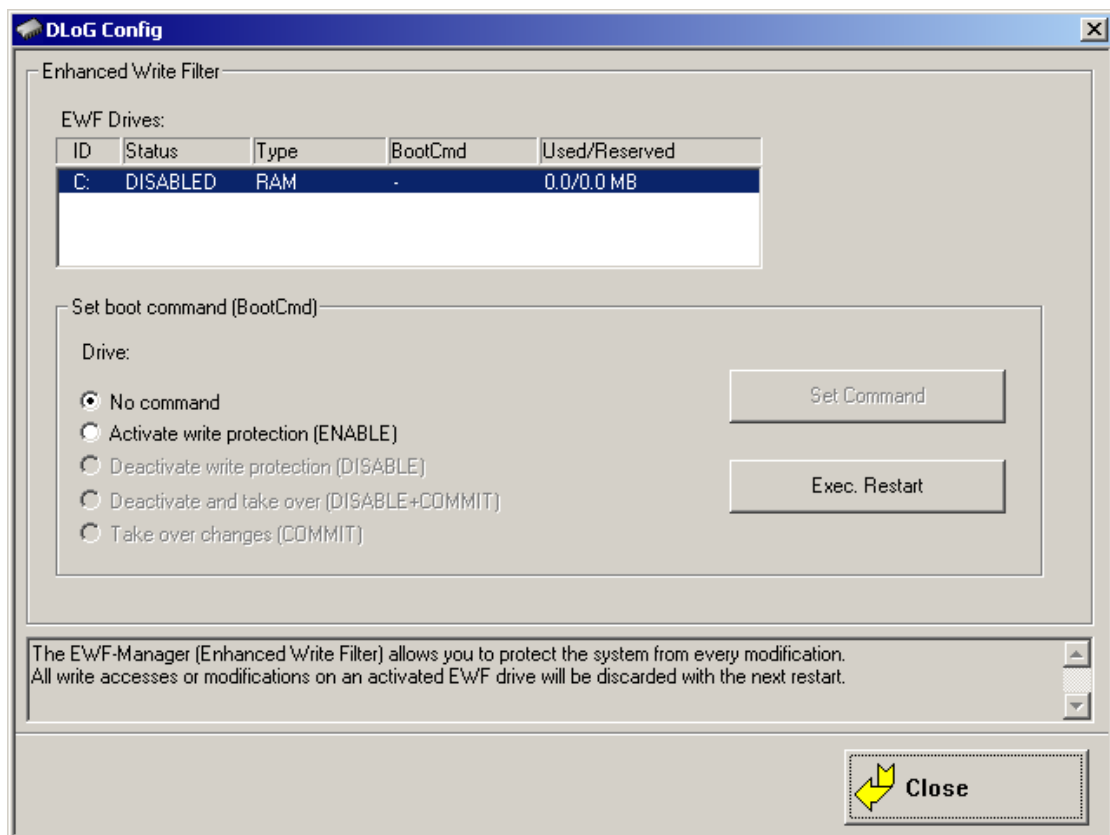


Figure 15.1: Enhanced Write Filter menu

The computer's EWF drives are displayed in the **EWF Drives** field (there is usually only one). The settings below apply to the EWF drive selected here.

Set boot command (BootCmd)

No command	The set boot commands are deactivated again.
Activate write protection (ENABLE)	Activates write protection: All system changes are written exclusively to the main memory; they are discarded when the computer is restarted. To activate this setting, reboot the computer!
Deactivate write protection (DISABLE)	Disables write protection. To activate this setting, reboot the computer!
Deactivate and take over (DISABLE+COMMIT)	This setting is a combination of Deactivate write protection and Take over changes : Write protection is deactivated; changes are applied.
Take over changes	Temporarily deactivates write protection in order to commit current changes to the system. Once finished, write protection is immediately active again.

- Click **Set Command** to apply the settings.
- Click the **Exec. Restart** button to restart the computer and activate the settings.

16. File Based Write Filter



The **File Based Write Filter** menu is only relevant for the embedded operating systems: XP Embedded and WES 7.

16.1. FBWF menus: Current and target status of the installation

The left column of the FBWS menu always shows the currently installed FBWF configuration; the right column shows the newly defined configuration after the computer is restarted.

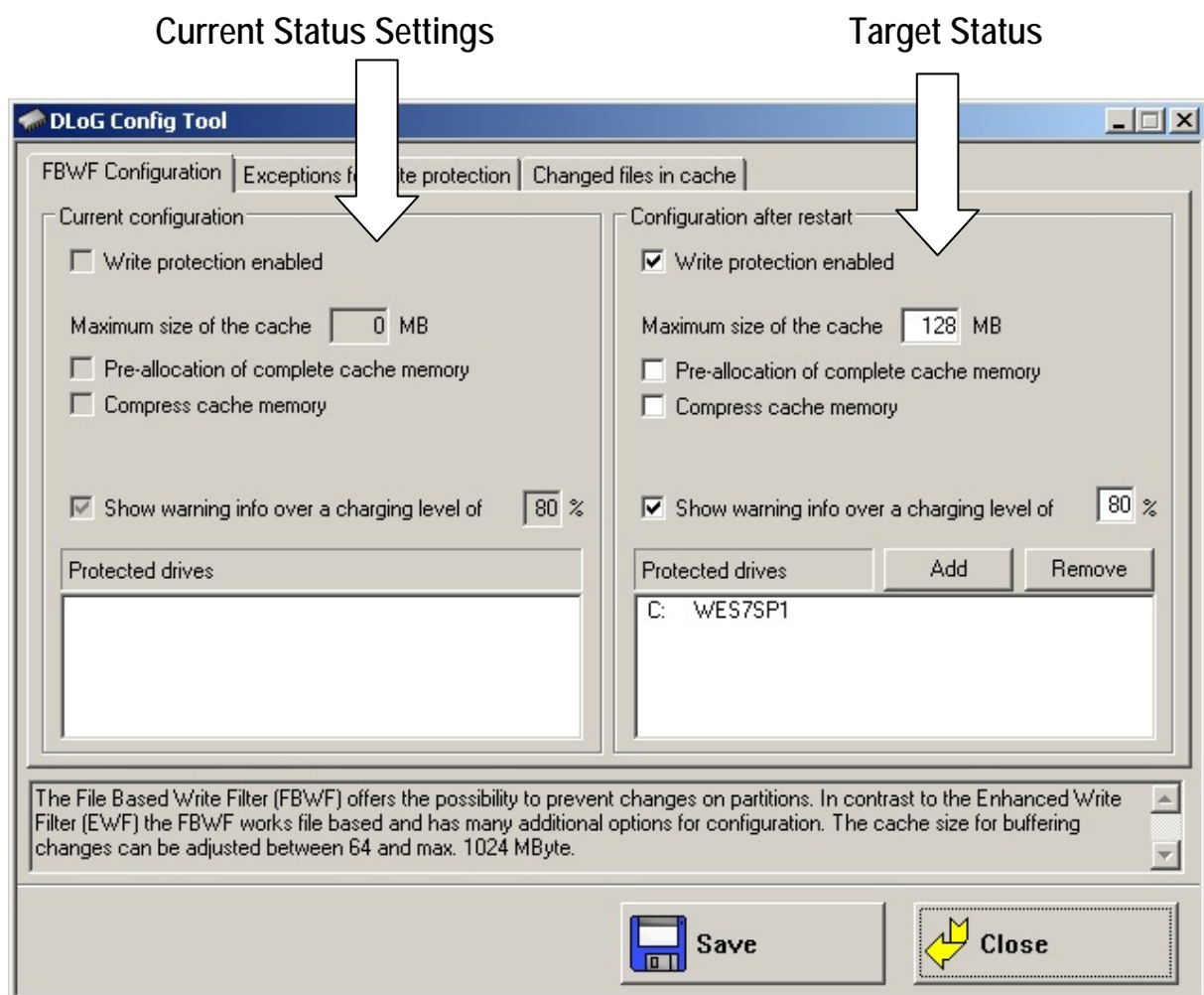


Figure 16.1: FBWF configuration menu

- When the desired configuration is complete: Don't forget to **save** the settings.

16.2. FBWF Configuration

The **File Based Write Filter** (FBWF) offers the possibility to protect a partition from changes. In contrast to the **Enhanced Write Filter** (EWF), the FBWF filters on a file basis and offers many additional options for configuration. The cache for intermediate storage of the changes can be set for between 64 and 1024 MB.

Current Configuration

The currently valid FBWF settings are displayed.

Configuration after restart

Write protection enabled	Enable FBWF; the computer must be rebooted to activate the settings.
Maximum size of the cache	Memory size available for the overlays. Entries between 64 and 1024 MB are possible.
Pre-allocation of complete cache memory	Maximum memory is not dynamic, but statically reserved in advance.
Compress cache memory	Memory content is compromised
Show warning info over a charging level of	Enter the percentage load factor of the reserved memory at which the warning message should be displayed.
Protected drives Add/Remove	The hard drives listed here are protected from changes. After clicking on Add or Remove , a list of hard drives is displayed.

- When the desired configuration is complete: Don't forget to **save** the settings.

16.2.12. Exceptions for write protection

Here you can define exceptions for write protection. Entire directories or individual files can be specified. Changes to files on the exception list are written directly to the file system, as usual.

The left column of the menu shows the currently set FBWF configuration; the right column shows the newly defined configuration after the computer is restarted.

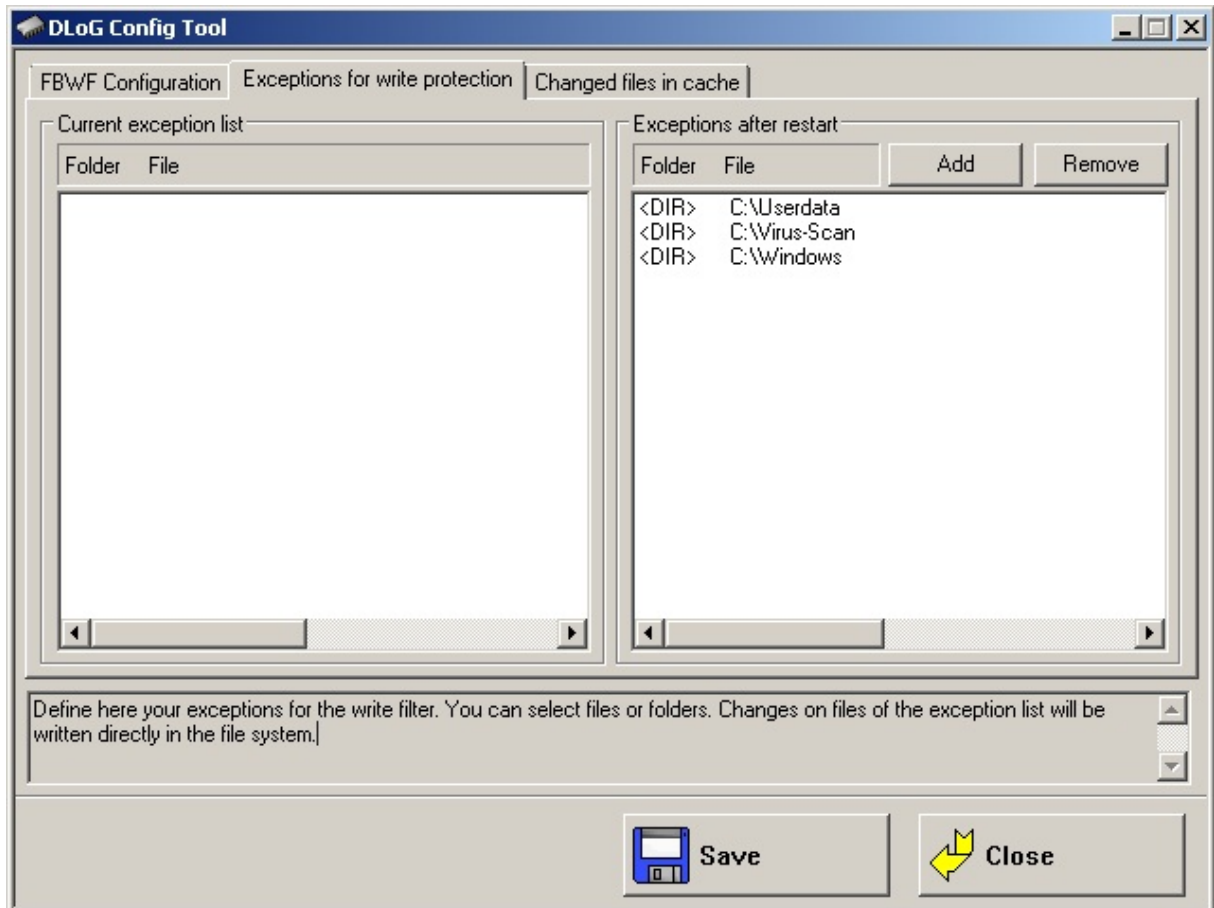


Figure 16.2: Exceptions to write protection

Current exception list

The currently valid settings are displayed.

Exceptions after restart

Add/remove

After clicking on **Add** or **Remove**, a list of hard drives and files is displayed.

- When the desired configuration is complete: Don't forget to **save** the settings.

16.2.13. Modified files in the cache

When FBWF is active, files are shown here that are protected by FBWF and that were changed during the run time.

The following is possible here:

- apply changes and write them to the file system
- or restore the original status of the file and delete it from the cache.

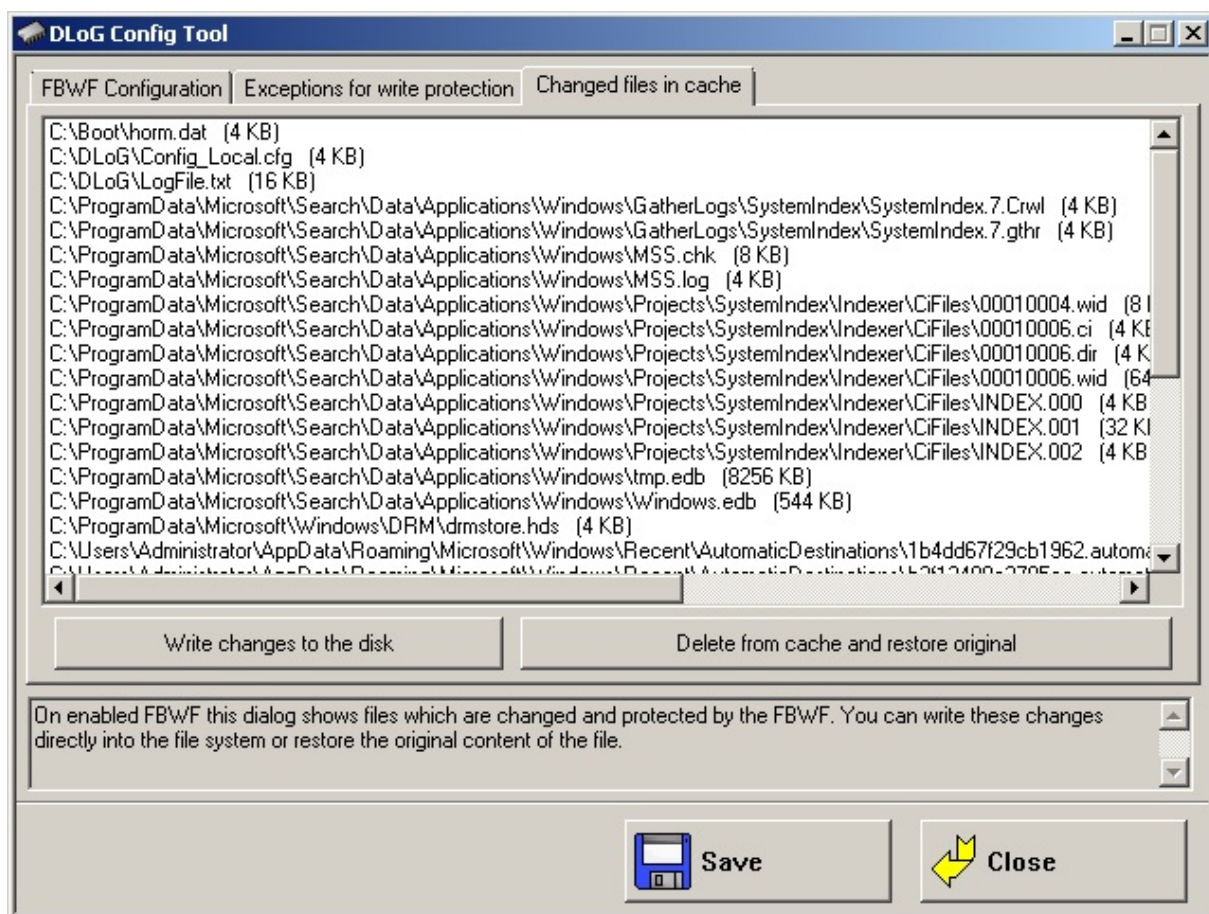


Figure 16.3: Modified files in the cache

Procedure:

- Select the individual lines in the list.
- Press the **Write changes to the disk** button if the changed data that is still in the cache is to be written to the respective hard drive.
- Or select **Delete file from cache and restore original** if the modified file in the cache should be deleted.

Error messages

FBWF Error (1)

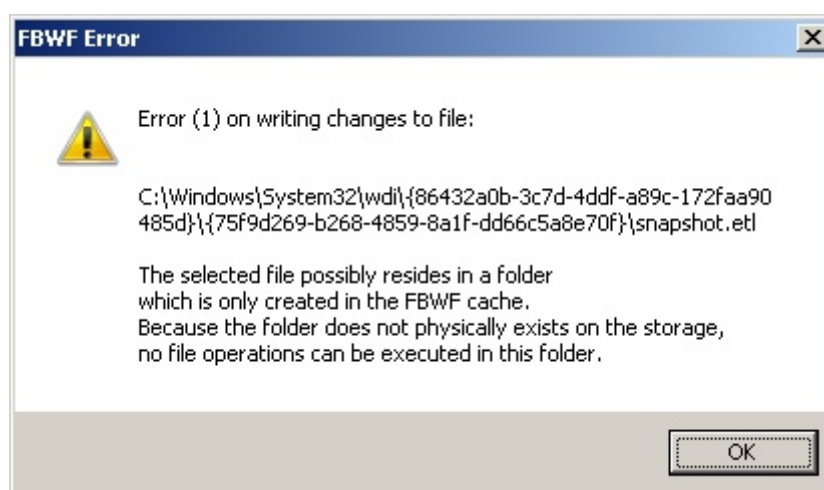


Figure 16.4: FBWF error: File is in the FBWF cache

Explanation:	<p>Files could not be written to the files, as they did not physically exist.</p> <p>With OK the file is skipped, the procedure Write changes to data media is carried out for the next file on the list.</p> <p>With Cancel, the procedure Write changes to data media is interrupted.</p>
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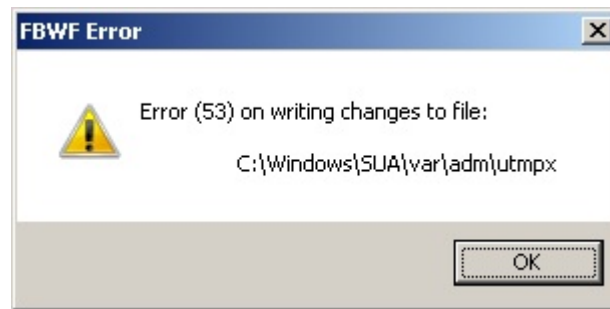
FBWF Error (53)

Figure 16.5: FBWF error: For files that are currently being accessed

Explanation:	<p>Files which are currently being accessed cannot be written to data media.</p> <p>With OK the file is skipped, the procedure Write changes to data media is carried out for the next file on the list.</p> <p>With Cancel, the procedure Write changes to data media is interrupted.</p>
--------------	--

17. Settings

In this menu, DLoG Config is configured with respect to password, language etc.

This configuration dialog is identical for the DLoG MPC, IPC, ITC and MTC.

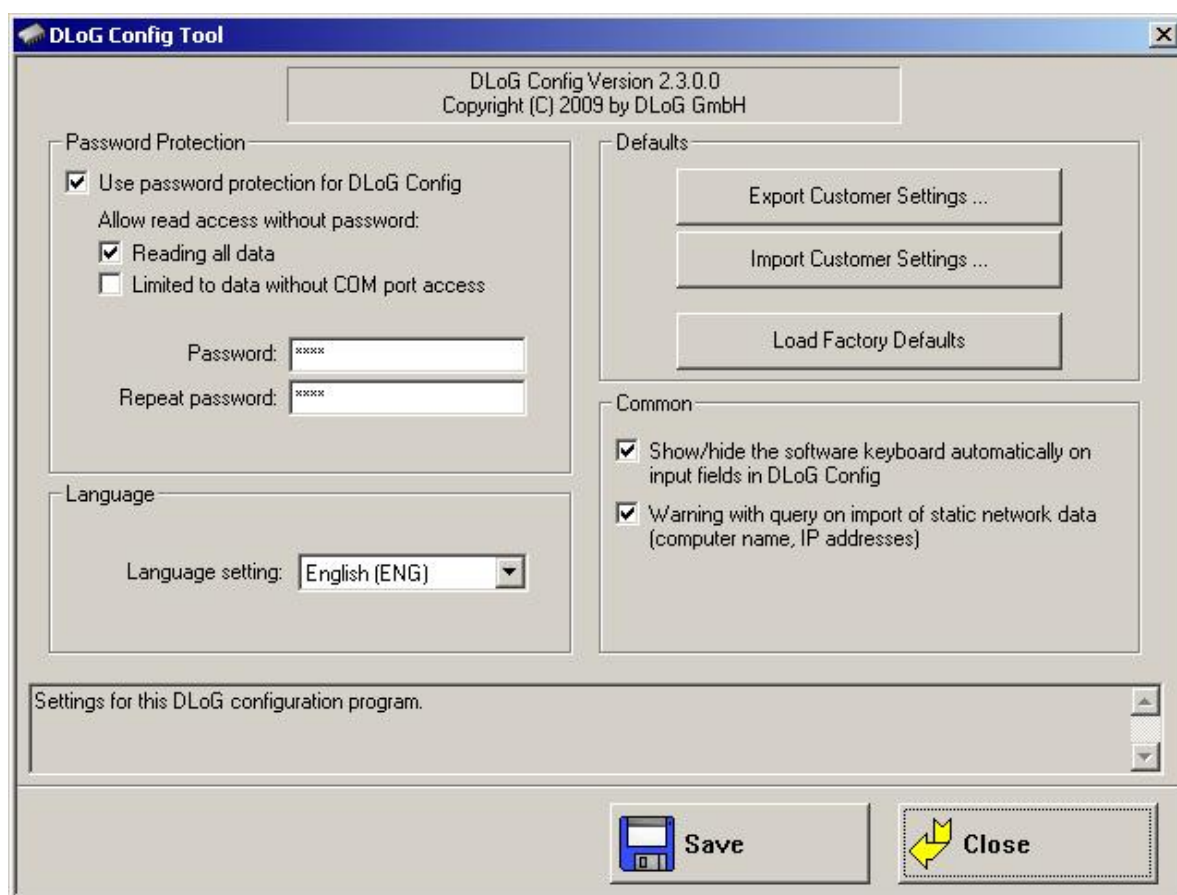


Figure 17.1: Settings menu

Password protection

Use password protection for DLoG Config

A password can be activated to allow access to programs. Enter a password and repeat the entry in the **Repeat password** field. This is case-sensitive.

Allow read access without password:

Reading all data	DLoG Config can be started without a password. It is possible to read all data, but no changes may be made to the settings.
Limited to data without COM port access	A password is not required to start DLoG Config. Reading of data is limited: The Environment , Automatic Switch-off and Front Panel menus are not available.

Language

Language setting	The language of the DLoG Config menus is defined. The default is always the system language of the computer. If no language file is available for this language, texts will be displayed in German. Only those languages may be selected for which language files (DLoGCfg* *.txt) are available in the Config EXE directory.
------------------	---

Defaults

Export customer settings	<p>With this function, all DLoG Config settings can be exported to a Config text file. Each export file is displayed with an info header (see <i>17.2 Info header</i>).</p> <p>The export file can be imported to other DLoG Industrial PC to maintain identical settings on all computers.</p>
Import customer settings	<p>Those files generated with the export function can be selected for import. It is not possible to import the local Config_Local.cfg. Before the import, a message tells you not to mix AC–DC configurations, as this can block the device.</p> <p>In the event that a mandatory software key for activating diverse options on a PC is missing, this is reported in a corresponding error message.</p> <p>Please note: If options are released in the imported Config setting, which are missing on this DLoG computer, a corresponding error message is displayed.</p>

**Caution:
Property
damage**

During import not all data is checked for validity; rather the data is saved in the way that it is defined in the import file. False information could lead to failure of DLoG Industrial PC (such as malfunctions, data loss, equipment damage etc.).

**Load
factory defaults**

Here default settings can be loaded that are saved in a file named **FactoryDefault_<Serial number>.cfg**. This file can only be generated by DLoG service with a DLoG-internal program. The AC–DC configuration warning does not appear, as it is assumed that this is taken into account at installation. If the file is not available, an error message about a 'defect' file appears.

Common**Show/hide the software
keyboard automatically
on input fields in
DLoG Config**

The software keyboard starts automatically when DLoG Config is started. When the cursor is placed in an input field, it is always displayed. A file named **Keyboard.cfg** must exist in the software keyboard installation directory; otherwise an error message appears. If the keyboard is started by DLoG Config, it is also terminated when DLoG Config is closed. The software keyboard version 1.5 or higher is mandatory for this. An error message is displayed when errors occur. The message is only visible after logging on.

**Warning with
query on import
of static network data
(computer name,
IP addresses)**

If static **IP addresses** (when DHCP is disabled) and/or a **computer name** are imported, a warning with corresponding security query may appear.

17.1. Command lines parameter IMPORT (only for administrators)

The parameter IMPORT is available for import using batch job (DLoG Config V 2.3 and higher).

Example: DLoGCfg IMPORT=<Path>AnyExportedData.cfg

The CFG file to be imported must be generated using export from DLoG Config.

The CFG filename must contain the entire path (or at least "." for the current directory).

Other parameters for control of the batch import are:

NONET	The data from the config module "network" will NOT be imported
STATNET	Static IP addresses will be imported and set during batch import. Default: Static IP addresses will NOT be imported.

Please note:

- To activate the imported data the computer must be restarted.
- Output redirection functions in a file with ">", however the output is still additionally written to the console window.

Caution:	NO warning/request appears when using the COM2!
Property damage	NO warning appears with information about the non-permitted mixing of configurations between AC and DC devices.

17.2. Info header of an export file

The info header of an export file contains the following information:

```
;-----  
; DLoG Config export file  
;  
; Exported from computer: MPC5XPEMBSP2  
; Hardware serial-number: 205004056587  
; Export timestamp (YMD): 2005/06/18 20:30:13  
;-----
```

[General]

DLoGCfgExportVer=1

DLoGCfgExportSNR=205004056587

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